



United Nations Educational, Scientific  
and Cultural Organization

# XISAAB



BUUGGA  
4



## HORDHAC

*Buuggan oo ah Xisaab Fasalka Afraad, waxa soo diyaarisay Xarunta Horumarinta Manaahijta ee Wasaaradda Waxbarashada iyo Barbaarinta. Waxana uu ka mid yahay buugaagta Manhajka cusub ee 1985ka bilaabmay.*

*Buuggani ujeeddada ugu weyn ee laga leeyahay waxa ay tahay in ardaydu ka bartaan aqoon iyo xirfado la xiriira tirooyinka, xisaab-fallada, joometeriga iyo cabbiraadda iyo in la siiyo aqoon-xisaabeed oo saldhig u noqon karta barashada xisaabta ee mustaqbalka.*

**Xasan Daahir Obsiye  
Agaasimaha Waaxda H. Manaahijta**

## HORDHAC

Buuggaan waxaa soo ururiyay, iskuna soo dubariday daabacadiisa labaad Koxda Farsamada ee Xafiiska UNESCO u qaabilsan tala bixinta waxbarashada

# XISAAB

# 4

Ku hoos qor tirada uu muujinayo sawir kasta

Ku B T k	Ku B T k	Ku B T k	Ku B T k
<input type="text" value="4063"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Tiro walba erayo ahaan u qor.

7345 = Toddoba kun, saddex boqol, afartan iyo shan.

6271 =

5430 =

4795 =

3286 =

Dhammaystir tusaha hoose.

Tirooyin	kumaad	boqolaad	tobnaad	kowaad
5308	5	3	0	8
6734				
2891				
7540				
436				
1907				

**1.2 Barashada kisi, dhaban iyo harsanaanta tirooyinka ilaa 9999 (Naqtiin)**

Qor tirada saxa ah ee geleysa meesha bannaan.

6791	6792	1562	1563	1564	7831	7832
5382			4890			3210
4070			3999			5679
3195			1009			2010
7809			4000			1011

kasta geli  $>$ ,  $<$  ama  $=$

- |          |                       |      |      |                       |          |
|----------|-----------------------|------|------|-----------------------|----------|
| 6789     | <input type="radio"/> | 6798 | 4792 | <input type="radio"/> | 4971     |
| 4563 + 1 | <input type="radio"/> | 4546 | 9673 | <input type="radio"/> | 9674 - 3 |
| 2487 - 3 | <input type="radio"/> | 2484 | 3479 | <input type="radio"/> | 3481 - 2 |
| 7896     | <input type="radio"/> | 7986 | 1736 | <input type="radio"/> | 1698     |
| 5832     | <input type="radio"/> | 5789 | 8754 | <input type="radio"/> | 8967     |

Tirooyinkan u kala saar kisi iyo dhaban.

- 3486, 128, 4704, 6731, 456, 7310,  
 5681, 2973, 7385, 348, 9736, 8442,  
 3489, 6327,

Tirooyinka kisiga waa:

Tirooyinka dhabanka waa:

**Isugeynta iyo kala-goynta tirooyin ilaa 3-god ah (Naqtiin)**

**1.3**

Ka shaqee layliyada soo socda

$\begin{array}{r} 356 \\ - 43 \\ \hline \end{array}$	$\begin{array}{r} 396 \\ - 109 \\ \hline \end{array}$	$\begin{array}{r} 563 \\ - 314 \\ \hline \end{array}$	$\begin{array}{r} 704 \\ - 399 \\ \hline \end{array}$	$\begin{array}{r} 893 \\ - 28 \\ \hline \end{array}$
$\begin{array}{r} 676 \\ + 134 \\ \hline \end{array}$	$\begin{array}{r} 315 \\ 32 \\ + 2 \\ \hline \end{array}$	$\begin{array}{r} 265 \\ + 294 \\ \hline \end{array}$	$\begin{array}{r} 372 \\ + 524 \\ \hline \end{array}$	$\begin{array}{r} 489 \\ + 19 \\ \hline \end{array}$
$\begin{array}{r} 134 \\ 113 \\ + 10 \\ \hline \end{array}$	$\begin{array}{r} 306 \\ + 549 \\ \hline \end{array}$	$\begin{array}{r} 185 \\ + 824 \\ \hline \end{array}$	$\begin{array}{r} 653 \\ + 334 \\ \hline \end{array}$	$\begin{array}{r} 925 \\ + 45 \\ \hline \end{array}$
$\begin{array}{r} 322 \\ 415 \\ + 10 \\ \hline \end{array}$	$\begin{array}{r} 396 \\ - 163 \\ \hline \end{array}$	$\begin{array}{r} 873 \\ - 436 \\ \hline \end{array}$	$\begin{array}{r} 721 \\ - 63 \\ \hline \end{array}$	$\begin{array}{r} 500 \\ - 187 \\ \hline \end{array}$

- |                   |                   |
|-------------------|-------------------|
| 416 + 200 = _____ | 565 - 354 = _____ |
| 342 - 231 = _____ | 774 - 343 = _____ |
| 416 + 312 = _____ | 863 + 36 = _____  |
| 396 - 195 = _____ | 692 - 342 = _____ |
| 641 + 241 = _____ | 934 + 125 = _____ |

1.4 Isugeynta iyo kala-goynta tirooyin laa 4-god ah (Naqtiin).

Ka shaqee layliyada soo socda			
443 + 155 ----- -----	6245 - 103 ----- -----	4345 + 3213 ----- -----	6987 - 2046 ----- -----
2468 - 325 ----- -----	3578 - 1426 ----- -----	432 + 64 ----- -----	6052 613 + 21 ----- -----
3180 - 1020 ----- -----	4061 213 + 304 ----- -----	2340 1026 + 412 ----- -----	3965 - 435 ----- -----
5241 + 3627 ----- -----	8152 201 + 425 ----- -----	6001 2345 + 510 ----- -----	1864 - 432 ----- -----
4036 + 1520 = _____		3230 + 416 + 23 = _____	
7348 - 1245 = _____		1723 + 5012 = _____	
7112 + 1403 + 51 = _____		9642 - 7331 = _____	
5831 - 421 = _____		2973 - 1652 = _____	
994 - 683 = _____		8434 + 1365 = _____	

Isugeynta iyo kala goynta tirooyin laa 4 god ah (Naqtiin).

1.5

Ka shaqee layliyada soo socda			
3168 + 4571 ----- -----	6497 - 1526 ----- -----	5472 + 3564 ----- -----	4537 - 1264 ----- -----
4345 + 2583 ----- -----	2034 + 7681 ----- -----	1580 - 59 ----- -----	4608 - 567 ----- -----
1967 + 3721 ----- -----	8802 - 1481 ----- -----	6871 230 + 46 ----- -----	7392 - 1236 ----- -----
8072 213 + 641 ----- -----	9481 + 346 ----- -----	4721 - 563 ----- -----	1873 - 1436 ----- -----
7542 + 1637 ----- -----	3356 - 2263 ----- -----	3045 + 4781 ----- -----	5308 - 795 ----- -----
7321 + 695 ----- -----	5651 + 1748 ----- -----	4375 - 564 ----- -----	8723 - 1439 ----- -----

MAS'ALOOYIN

1. Warshad ayaa waxa ka shaqeeya 616 qof.  
Waxa la qoray shaqaale kale oo dhan 319.  
Waa immisa tirada shaqaalaha ee warshadda?
2. Imtixaan ay u fariisteen arday tiradoodu dhan tahay 8775 ayaa waxaa wiilal ahaa 6239.  
Waa immisa tirada gabdhaha u fariistay imtixaanka?
3. Iskaashato beeraley ah baa waxay abuureen 8653 geed oo saytuun ah, haddana bil ka dib waxay abuureen 348 geed.  
Waa immisa tirada geedaha ay abuureen?
4. Bakhaar ayaa waxa yaallay 4739 jawaan oo bariis ah, waxaa laga raray 1348 jawaan.  
Waa immisa tirada jawaannada ee ku hartay bakhaarka?
5. Maktabad ay hore u yiillean 5278 buug, ayaa waxa lagu soo kordhiyey 2645 buug.  
Waa immisa tirada buugta ee maktabadda taalla?

Dhammaystir tusaha hoose.

X	1	2	3	4	5	6	7	8	9	10
1										
2			6							
3							21			
4					20					
5		10								
6								48		
7									63	
8				32						
9										90
10						60				

Raadi taranka

$\begin{array}{r} 32 \\ \times 8 \\ \hline \hline \end{array}$	$\begin{array}{r} 143 \\ \times 9 \\ \hline \hline \end{array}$	$\begin{array}{r} 22 \\ \times 3 \\ \hline \hline \end{array}$	$\begin{array}{r} 11 \\ \times 6 \\ \hline \hline \end{array}$	$\begin{array}{r} 91 \\ \times 7 \\ \hline \hline \end{array}$
$\begin{array}{r} 100 \\ \times 8 \\ \hline \hline \end{array}$	$\begin{array}{r} 201 \\ \times 9 \\ \hline \hline \end{array}$	$\begin{array}{r} 103 \\ \times 3 \\ \hline \hline \end{array}$	$\begin{array}{r} 75 \\ \times 6 \\ \hline \hline \end{array}$	$\begin{array}{r} 88 \\ \times 2 \\ \hline \hline \end{array}$
$\begin{array}{r} 187 \\ \times 4 \\ \hline \hline \end{array}$	$\begin{array}{r} 62 \\ \times 7 \\ \hline \hline \end{array}$	$\begin{array}{r} 144 \\ \times 5 \\ \hline \hline \end{array}$	$\begin{array}{r} 506 \\ \times 8 \\ \hline \hline \end{array}$	$\begin{array}{r} 613 \\ \times 3 \\ \hline \hline \end{array}$

2.2 U qaybinta tirooyin ilaa 3 god ah, tiro 1 god ah (Naqtiin).

Qaybi				
$6 \overline{)42}$	$2 \overline{)932}$	$8 \overline{)89}$	$5 \overline{)45}$	$3 \overline{)351}$
$4 \overline{)79}$	$4 \overline{)496}$	$5 \overline{)86}$	$2 \overline{)116}$	$9 \overline{)63}$
$8 \overline{)889}$	$3 \overline{)245}$	$7 \overline{)441}$	$3 \overline{)90}$	$2 \overline{)784}$
$27 \div 3 = \square$		$81 \div 3 = \square$		
$42 \div 2 = \square$		$72 \div 8 = \square$		
$32 \div 4 = \square$		$99 \div 9 = \square$		
$492 \div 6 = \square$		$240 \div 8 = \square$		
$427 \div 7 = \square$		$357 \div 7 = \square$		
$125 \div 5 = \square$		$396 \div 6 = \square$		
$496 \div 4 = \square$		$819 \div 9 = \square$		

Isku dhufashada iyo u qaybinta tirooyin ilaa 3 god ah, tiro 1 god ah (Naq 2.3)

Raadi taranka				
$\begin{array}{r} 31 \\ \times 4 \\ \hline \hline \end{array}$	$\begin{array}{r} 40 \\ \times 6 \\ \hline \hline \end{array}$	$\begin{array}{r} 13 \\ \times 2 \\ \hline \hline \end{array}$	$\begin{array}{r} 22 \\ \times 3 \\ \hline \hline \end{array}$	$\begin{array}{r} 76 \\ \times 3 \\ \hline \hline \end{array}$
$\begin{array}{r} 93 \\ \times 7 \\ \hline \hline \end{array}$	$\begin{array}{r} 101 \\ \times 5 \\ \hline \hline \end{array}$	$\begin{array}{r} 263 \\ \times 7 \\ \hline \hline \end{array}$	$\begin{array}{r} 494 \\ \times 5 \\ \hline \hline \end{array}$	$\begin{array}{r} 632 \\ \times 8 \\ \hline \hline \end{array}$
$\begin{array}{r} 219 \\ \times 6 \\ \hline \hline \end{array}$	$\begin{array}{r} 932 \\ \times 4 \\ \hline \hline \end{array}$	$\begin{array}{r} 111 \\ \times 6 \\ \hline \hline \end{array}$	$\begin{array}{r} 463 \\ \times 8 \\ \hline \hline \end{array}$	$\begin{array}{r} 509 \\ \times 7 \\ \hline \hline \end{array}$
Qaybi				
$6 \overline{)36}$	$2 \overline{)27}$	$9 \overline{)54}$	$3 \overline{)81}$	$5 \overline{)96}$
$2 \overline{)568}$	$4 \overline{)409}$	$3 \overline{)972}$	$6 \overline{)146}$	$3 \overline{)349}$
$5 \overline{)637}$	$7 \overline{)938}$	$8 \overline{)984}$	$6 \overline{)349}$	$9 \overline{)507}$

2.4 Furfurista mas'alooyin ereyo ah (Naqtiin).

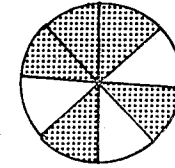
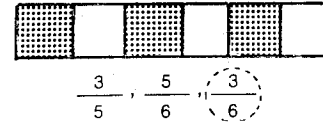
MAS'ALOOYIN

- Haddii hal dambiil oo liin ah uu qiimaheedu yahay 9 shilin. Waa immisa qiimaha 38 dambiilood?
- Cali oo haystay 63 nacin ayaa si isle'eg ugu qaybiyey 7 arday. Immisa nacin ayuu helayaa arday kasta?
- Fasal ay ku jiraan 36 arday. Haddii arday kasta uu haysto 9 shilin. Immisa shilin ayey haystaan ardayda oo dhan?
- Caasha oo haysatay 419 buug, ayaa waxa ay si isle'eg ugu qaybisay 3 arday. Immisa ayuu helayaa arday kasta? Immisa buug baa soo haraysa?
- 3 baabuur oo waaweyn ayaa midkiiba waxa saaran 112 qof. Intee qof baa saaran dhammaan 3-da baabuur?
- 4 qof oo iskaashato ah, ayaa waxa ay heleen lacag dhan 497 shilin. Immisaa ku soo aadaysa qof kasta? Immisaana soo haraysa?

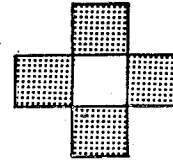
Jajabyo leh hooseeyaal kala duwan (Naqtiin).

2.5

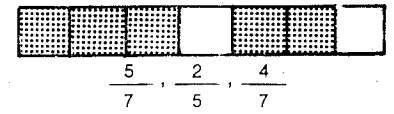
Goobo geli jajabka saxa ah ee ay tilmaamayso qaybta xardhan. ee shaxan kasta.



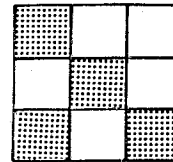
$$\frac{5}{8}, \frac{4}{6}, \frac{3}{8}$$



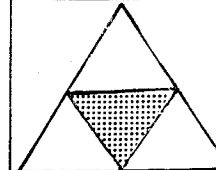
$$\frac{2}{5}, \frac{4}{5}, \frac{5}{6}$$



$$\frac{5}{7}, \frac{2}{5}, \frac{4}{7}$$

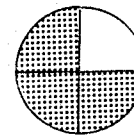


$$\frac{5}{9}, \frac{4}{9}, \frac{3}{9}$$



$$\frac{2}{3}, \frac{3}{4}, \frac{1}{4}$$

Qor jajabyada qaybta xardhan iyo qaybta aan xardhanayn ee shaxan kasta

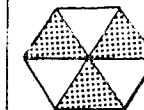


Qaybta xardhan

$$\frac{3}{4}$$

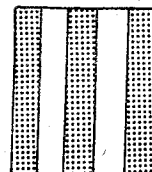
Qaybta aan xardhanayn

$$\frac{1}{4}$$



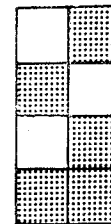
Qaybta xardhan

Qaybta aan xardhanayn



Qaybta xardhan

Qaybta aan xardhanayn

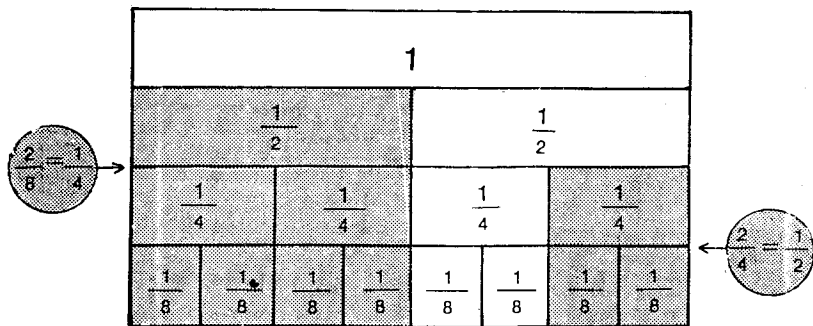


Qaybta xardhan

Qaybta aan xardhanayn



## 2.6 Isle'egkaanshaha Jajabyada (Naqtiin).



Dhammaystir

$$\frac{2}{4} = \frac{\square}{2}$$

$$\frac{1}{4} = \frac{\square}{8}$$

$$1 = \frac{\square}{4}$$

$$\frac{8}{8} = \square$$

$$\frac{1}{2} = \frac{\square}{8}$$

$$\frac{6}{8} = \frac{\square}{4}$$

Buuxi meelaha bannaan

$$\frac{4}{10} = \frac{5}{10} = \frac{\square + 5}{10} = \frac{\square}{10}$$

$$\frac{4}{6} - \frac{2}{6} = \frac{\square - \square}{6} = \frac{\square}{6}$$

$$\frac{6}{8} - \frac{3}{8} = \frac{\square - \square}{8} = \frac{\square}{8}$$

$$\frac{3}{7} + \frac{2}{7} = \frac{3 + \square}{7} = \frac{\square}{7}$$

$$\frac{2}{5} + \frac{1}{5} = \frac{\square + \square}{5} = \frac{3}{\square}$$

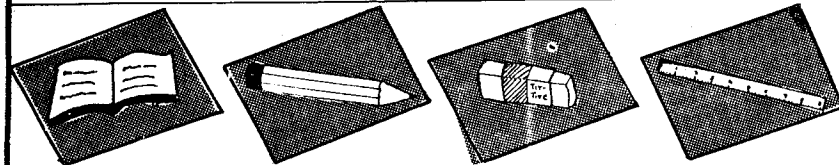
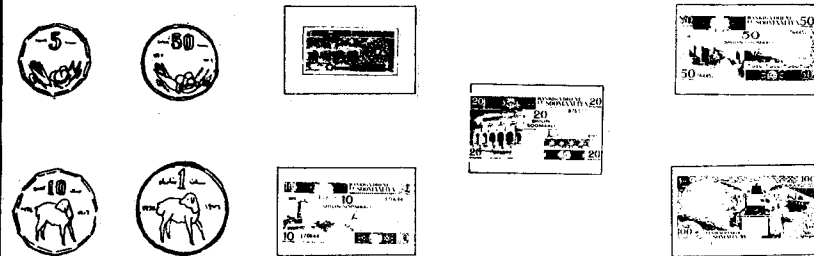
$$\frac{2}{3} - \frac{1}{3} = \frac{\square - \square}{3} = \frac{\square}{3}$$

$$\frac{2}{9} + \frac{3}{9} = \frac{\square + \square}{9} = \frac{5}{\square}$$

$$\frac{3}{4} - \frac{2}{4} = \frac{\square - \square}{4} = \frac{\square}{4}$$

## Aqoonsiga Iyo Isticmaalka Lacagta (Naqtiin)

3.1

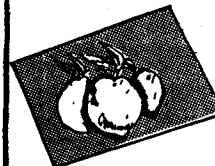


12.50 sh.

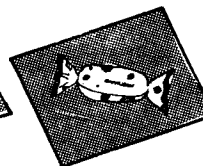
3.70 sh.

3.60 sh.

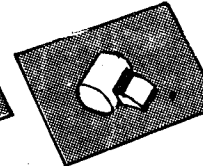
7.50 sh.



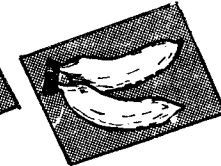
2.30 sh.



0.50 sh.



5.35 sh.



1.00 sh.

- Haddii Cabdi uu iibsadey hal buug iyo hal mastarad. Immisa ayaa lacag ka baxday?
- Caasha oo haysatay 5 shilin ayaa iibsatey hal liin ah. Immisa ayaa lacag u soo hartay?
- Haddii Cumar uu iibsadey hal biibiile (firinbi), hal moos iyo hal tirtire. Immisa ayaa lacag ka baxday?
- Faadumo oo haysatey 10 shilin ayaa iibsatay qalin-qori iyo nacnac. Immisa ayaa lacag u soo hartay?

3.2 Barashada akhriska goorbeegga (Naqtiin).

Kaalandarka Sanadka 1986

JANNAAYO							FEBRAAYO							MAARSO							ABRIIL						
SAB	AJAW	ISNIN	TALAADO	ARABDO	BARAHO	WARSAN	SAB	AJAW	ISNIN	TALAADO	ARABDO	BARAHO	WARSAN	SAB	AJAW	ISNIN	TALAADO	ARABDO	BARAHO	WARSAN	SAB	AJAW	ISNIN	TALAADO	ARABDO	BARAHO	WARSAN
1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7
8	9	10	11	12	13	14	8	9	10	11	12	13	14	8	9	10	11	12	13	14	8	9	10	11	12	13	14
15	16	17	18	19	20	21	15	16	17	18	19	20	21	15	16	17	18	19	20	21	15	16	17	18	19	20	21
22	23	24	25	26	27	28	22	23	24	25	26	27	28	22	23	24	25	26	27	28	22	23	24	25	26	27	28
29	30	31					29	30	31					29	30	31					29	30	31				

MAAJO							JUUNYO							LUULYO							AGOOSTO						
SAB	AJAW	ISNIN	TALAADO	ARABDO	BARAHO	WARSAN	SAB	AJAW	ISNIN	TALAADO	ARABDO	BARAHO	WARSAN	SAB	AJAW	ISNIN	TALAADO	ARABDO	BARAHO	WARSAN	SAB	AJAW	ISNIN	TALAADO	ARABDO	BARAHO	WARSAN
1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7
8	9	10	11	12	13	14	8	9	10	11	12	13	14	8	9	10	11	12	13	14	8	9	10	11	12	13	14
15	16	17	18	19	20	21	15	16	17	18	19	20	21	15	16	17	18	19	20	21	15	16	17	18	19	20	21
22	23	24	25	26	27	28	22	23	24	25	26	27	28	22	23	24	25	26	27	28	22	23	24	25	26	27	28
29	30	31					29	30	31					29	30	31					29	30	31				

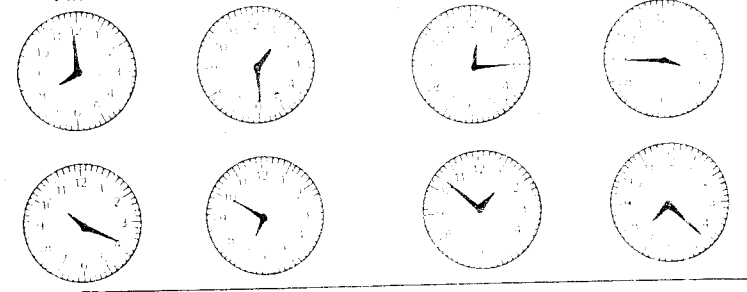
  

SETEMBAR							OKTOOBAR							NOFEMBAR							DISEMBAR						
SAB	AJAW	ISNIN	TALAADO	ARABDO	BARAHO	WARSAN	SAB	AJAW	ISNIN	TALAADO	ARABDO	BARAHO	WARSAN	SAB	AJAW	ISNIN	TALAADO	ARABDO	BARAHO	WARSAN	SAB	AJAW	ISNIN	TALAADO	ARABDO	BARAHO	WARSAN
1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7
8	9	10	11	12	13	14	8	9	10	11	12	13	14	8	9	10	11	12	13	14	8	9	10	11	12	13	14
15	16	17	18	19	20	21	15	16	17	18	19	20	21	15	16	17	18	19	20	21	15	16	17	18	19	20	21
22	23	24	25	26	27	28	22	23	24	25	26	27	28	22	23	24	25	26	27	28	22	23	24	25	26	27	28
29	30	31					29	30	31					29	30	31					29	30	31				

Ka jawaab su'aalahan adoo isticmaalaya kaalandarka sare.

- Magacow maalinta taariikhdu tahay  
(b) 15ka Jannaayo (t) 2da Nofembar (j) 4ta Disambar
- Sheeg taariikhda maalmahan:  
(b) Jimcaha labaad ee Jannaayo.  
(t) Maalinta u horreysa Oktoobar.  
(j) Arbacada saddexaad ee Febraayo.  
(x) Maalinta u dambeysa Disambar.
- Haddii maanta ay tahay Jimce 3da Maaajo 1986, sheeg maalinta iyo taariikhda.  
(b) berri (t) shalay (j) saadambe (x) dorraad.
- U qor taariikhdan sansaankan oo kale 15/10/86 ama 15.10.86.  
(b) Maalintaad dhalatay. (t) Maalinta xornimada G/Waqooyi. (j) Maalinta xornimada G/Koonfureed.  
(x) Maanta (kh) Shalay (d) Maalinta Shaqaalaha Adduunka. (r) Berri.

Akhri saacadahan



Ka jawaab su'aalahan

- Immisa daqiiqadood ayaa ku jira:  
(b) 3 saacadaood (t) 11 saacadood.  
(j) 1 maalin (x) 9 saacadood iyo 45 daqiiqo.  
(kh) 4 saacadood iyo 15 daqiiqo.
- U beddel saacado iyo daqiiqado  
(b) 360 daqiiqadood. (t) 640 daqiidaqood.  
(j) 1000 daqiiqadood.
- Immisa saacadood ayaa ku jira  
(b) 3 maalmood. (t) 6 maalmood. (j) 28 maalmood.  
(x) Bisha Abriile.
- U beddel maalmo iyo saacado  
(b) 820 saacadood (t) 1000 saacadood.  
(j) 240 saacadood (x) 576 saacadood.
- Immisa ilbiriqsi ayaa ku jira  
(b) 3 daqiiqadood (t) 9 daqiiqadood. (j) 5 daqiiqadood iyo 25 ilbiriqsi.
- U beddel daqiiqado  
(b) 180 ilbiriqsi. (t) 127 ilbiriqsi. (j) 990 ilbiriqsi.

### 3.4 Halbeegyada culayska iyo qaadka (Naqtiin).

1 kiilograam (Kg) = 1000 garaam (g)

1. Haddii culayskaagu yahay 38 kg iyo 540 g. ardayga ku dhinac fadhiyana culayskiisu yahay 44 kg iyo 660 g.  
Waa immisa culayska labadiinnu?
2. Qof culayskiisu ahaan jirey 75 kg iyo 750 g. ayaa waxa ka dhacay 6 kg iyo 950 g. Waa immisa culayskiisu hadda?
3. Cali gurigiisa waxa u yaal laba shandadood (boorso) oo mid culayskeedu yahay 24 kg iyo 200 g. ta kalena 17 kg iyo 850 g.  
Waa immisa culayska labada shandadood?



1 litir



1/2 litir

4. Cabdi ayaa loo diray in uu soo iibiyo 4 litir oo caano ah. Suuqa waxa yaalay caanaha warshadda oo ku jirey dhalooyin nus litiro ah. Immisa dhalo ayuu Cabdi soo qaadayaa?
5. Baabuur taangigiisu qaado 42 litir oo batrool ah, matoorkiisuna 4 litir oo oolyo ah, ayaa ninkii lahaa uu u baahday in uu buuxsado. Wuxuu ku shubay 28 litir oo batrool ah iyo 1/2 litir oo oolyo ah. Immisa shidaal ayaa ku jirey baabuurka?
6. Dhalada nus litirka ah ee caanuhu waxay qaaddaa laba galaas. Immisa litir oo caano ayaad u baahan tahay in aad siisid 12 qof oo midkiiba cabbayo hal galaas?

### Halbeegyada dhererka (Naqtiin).

3.5

1 mitir (m) = 10 disimitir (dm)

1 disimitir = 10 sentimitir (sm)

1 sentimitir = 10 milimitir (mm)

1 milimitir = 100 sentimitir

Buuxi meelaha bannaan

1 m = 1000 mm

1 dm = \_\_\_\_\_ mm

3 m = \_\_\_\_\_ sm

500 sm = \_\_\_\_\_ m

4 dm = \_\_\_\_\_ sm

60 sm = \_\_\_\_\_ dm

12 sm = \_\_\_\_\_ mm

290 mm = \_\_\_\_\_ sm.

Dhererkaagu waa \_\_\_\_\_ mitir iyo \_\_\_\_\_ sentimitir.

Dhererka qalinkaagu waa \_\_\_\_\_ sentimitir iyo \_\_\_\_\_ milimitir.

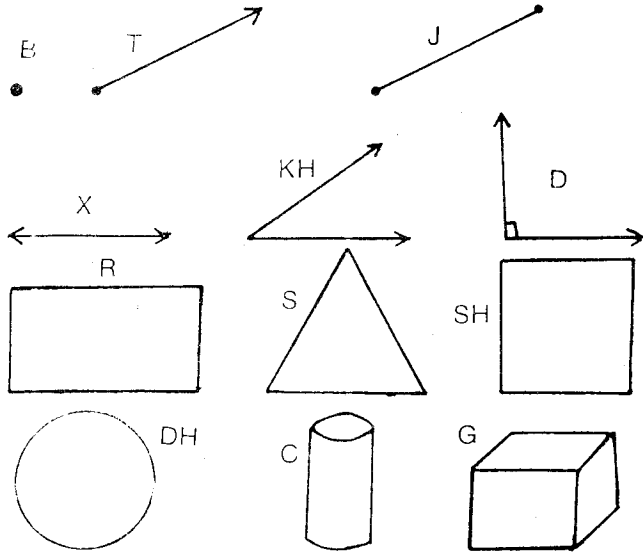
Dhererka fasalkaagu waa \_\_\_\_\_ mitir iyo \_\_\_\_\_ sentimitir.

Dhererka buugga xisaabtu waa \_\_\_\_\_ sentimitir iyo \_\_\_\_\_ milimitir.

Ballaca fasalkaagu waa \_\_\_\_\_ mitir iyo \_\_\_\_\_ sentimitir.

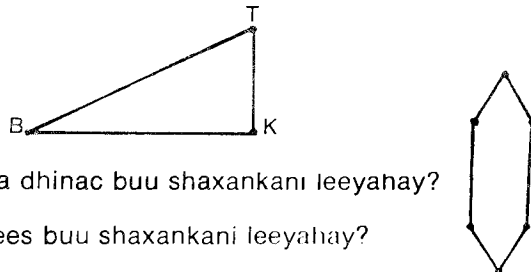
### 3.6 Barashada qaababka (Naqtiin).

1. Isku aaddi magacyada iyo qaababka.



- |                 |                       |
|-----------------|-----------------------|
| (b) Xarriijin   | (t) Saddexagal        |
| (j) Xagal       | (x) Bar               |
| (kh) Xarriiq    | (d) Labajibbaarane    |
| (r) Goobo       | (s) Fallaar           |
| (sh) Dhululubo  | (dh) Saddexjibbaarane |
| (c) Xagal quman | (g) Laydi             |

2. Magacow saddexda xarriijimood ee shaxankan.



3. (b) Immisa dhinac buu shaxankani leeyahay?  
 (t) Immisa gees buu shaxankani leeyahay?

### Barashada dhufsanayaasha kun ilaa 100,000

10 = toban      10,000 = 10 kun  
 100 = boqol      20,000 = 20 kun  
 1,000 = kun      100,000 = 100 kun

Dhammaystir jiif u tax kasta.

1,000	2,000			5,000			
10,000	20,000				60,000		
27,000			30,000				
36,000				40,000			
43,000			46,000			49,000	
55,000			58,000			61,000	
67,000			70,000				
	85,000				89,000		91,000
93,000						99,000	100,000

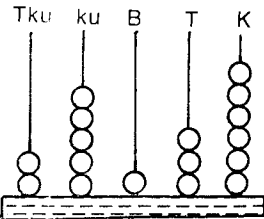
Tusaale

Halkan waxa ku yaalla

tiro lagu muujinayo

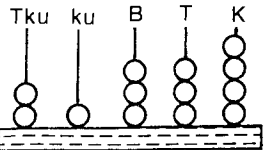
abakas.

Tiradu waa : 2 5 , 1 3 6

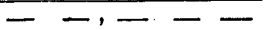


Waxaana loo akhriyaa: labaatan iyo shan kun, boqol soddon iyo lix.

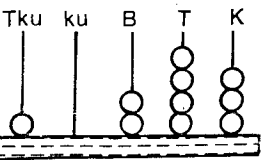
Sheeg tirada isla markaana akhri



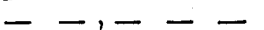
Tiradu waa



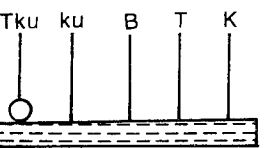
Waxaana loo akhriyaa :



Tiradu waa



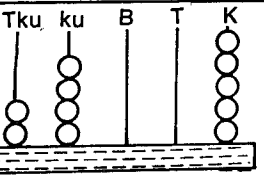
Waxaana loo akhriyaa



Tiradu waa



Waxaana loo akhriyaa



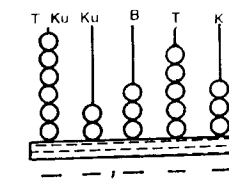
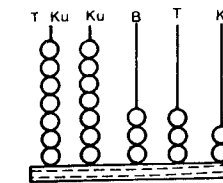
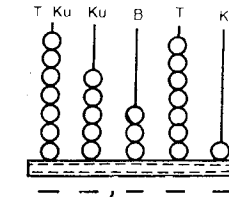
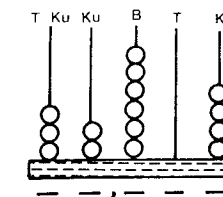
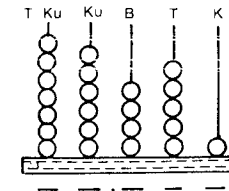
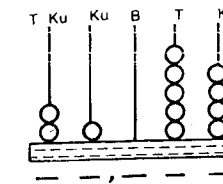
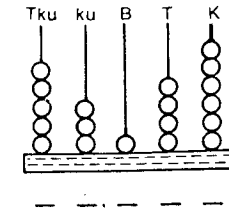
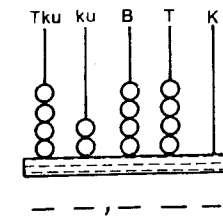
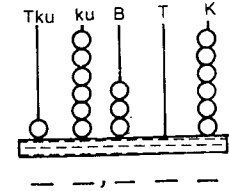
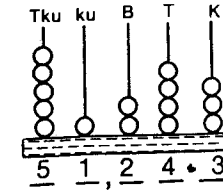
Tiradu waa



Waxaana loo akhriyaa

Ku hoos qor tirada uu muujinayo abakas kasta

Tusaale:



4.4 Aqoonsiga tirooyinka ilaa 99999

Ka shaqee adigoo raacaya tusaalaha ugu horreeya

19635	<input type="text" value="1"/>	Toban kumaac	<input type="text" value="9"/>	Kumaac	<input type="text" value="6"/>	Boqolaad	<input type="text" value="3"/>	Tobnaad	<input type="text" value="5"/>	Koowaad
25964	<input type="text"/>	Toban kumaac	<input type="text"/>	Kumaac	<input type="text"/>	Boqolaad	<input type="text"/>	Tobnaad	<input type="text"/>	Koowaad
44023	<input type="text"/>	Toban kumaac	<input type="text"/>	Kumaac	<input type="text"/>	Boqolaad	<input type="text"/>	Tobnaad	<input type="text"/>	Koowaad
67749	<input type="text"/>	Toban kumaac	<input type="text"/>	Kumaac	<input type="text"/>	Boqolaad	<input type="text"/>	Tobnaad	<input type="text"/>	Koowaad
78311	<input type="text"/>	Toban kumaac	<input type="text"/>	Kumaac	<input type="text"/>	Boqolaad	<input type="text"/>	Tobnaad	<input type="text"/>	Koowaad
96943	<input type="text"/>	Toban kumaac	<input type="text"/>	Kumaac	<input type="text"/>	Boqolaad	<input type="text"/>	Tobnaad	<input type="text"/>	Koowaad

Dhammaystir adigoo raacaya tusaalaha ugu horreeya.

45321 =	40000	+	5000	+	300	+	20	+	1
63219 =	_____	+	_____	+	_____	+	_____	+	_____
14033 =	_____	+	_____	+	_____	+	_____	+	_____
59348 =	_____	+	_____	+	_____	+	_____	+	_____
72460 =	_____	+	_____	+	_____	+	_____	+	_____
61051 =	_____	+	_____	+	_____	+	_____	+	_____
99467 =	_____	+	_____	+	_____	+	_____	+	_____

Ka jawaab su'aalahan soo socda.

Waa maxay qiimaha	2 ee tiradan	48325 ?	<u>20</u>
Waa maxay qiimaha	9 ee Tiradan	51369 ?	_____
Waa maxay qiimaha	7 ee Tiradan	37543 ?	_____
Waa maxay qiimaha	4 ee Tiradan	93420 ?	_____
Waa maxay qiimaha	8 ee Tiradan	81567 ?	_____

Akhriska iyo qoritaanka tirooyinka ilaa 99999

Tira walba ereyo ahaan u qor.

19394 =	Toban iyo sagaal kun, saddex boqol sagaashan iyo afar
25132 =	
98265 =	
33286 =	
45400 =	
56210 =	

Tiro kasta qor astiradeeda

Toddobaatan iyo shan kun saddex boqol labaatan iyo shan.	<input type="text" value="75325"/>
Lixdan iyo Shan kun, lix boqol konton iyo shan.	<input type="text"/>
Afartan iyo saddex kun, shan boqol iyo labo.	<input type="text"/>
Sideetan iyo sagaal kun saddex boqol afartan iyo kow.	<input type="text"/>
Konton iyo afar kun laba boqol iyo soddon iyo saddex.	<input type="text"/>
Sagaashan iyo laba kun afar boqol labaatan iyo kow.	<input type="text"/>

Guuri isla markaana dhammaystir tusaha hoose

	Tku	Ku	B	T	K
Labaatan iyo toddoba kun iyo afartan					
Labaatan iyo toddoba kun afartan	2	7	0	4	0
Kow iyo toban kun toddoba boqol konton iyo kow					
Konton kun, soddon iyo saddex					
Lixdan iyo sagaal kun saddex boqol iyo labaatan					
Soddon iyo laba kun, lix boqol sagaashan iyo afar					
Sagaashan iyo laba kun, toddobaatan iyo toddoba					

#### 4.6 Horsanaanta tirooyinka ilaa 99999

u qor tirooyinka soo socda si horsan, adigoo u hormarinaya tirada ugu yar

B)	5321	5673	68249	79368
T)	47321	96543	47231	74123
J)	56210	18625	56012	18265
X)	7193	4623	2950	1321
KH)	80080	88000	80800	80008

Qor tirada ugu yar iyo ta ugu weyn ee ka samaysmi karta tirooyinka lagu siiyey.

Tirooyin	Tirada ugu weyn	Tirada ugu yar
2, 6, 9, 4, 7	97642	24679
5, 6, 7, 3, 8		
4, 2, 9, 5, 3		
3, 7, 8, 4, 1		
6, 9, 3, 2, 5		
1, 8, 7, 5, 9		

○ kasta geli > ama <

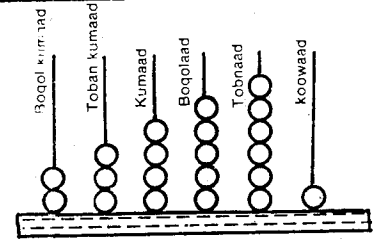
31222	○	11999	37152	○	47154
48899	○	17899	99983	○	19908
11555	○	10555	44544	○	35444
49937	○	51475	99109	○	36901
97404	○	99403	16237	○	16267
16391	○	10110	77413	○	76409

#### Aqoonsiga, akhrika iyo qoritaanka tirooyin 6 god ah

5.1

Tusaale

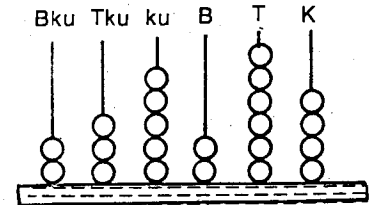
Haikan waxaa ku yaalla tiro lagu muujiyey abakas



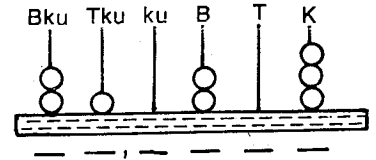
Tiradu waa : 2 3 4 5 6 1

Waxaana loo akhriyaa laba boqol soddon iyo afar-kun shan boqol lixdan iyo kow.

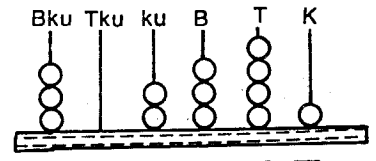
Sheeg tirada isla markaana akhri



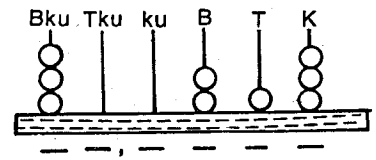
Tiradu waa  
Waxaana loo akhriyaa



Tiradu waa  
Waxaana loo akhriyaa



Tiradu waa  
Waxaana loo akhriyaa



Tiradu waa  
Waxaana loo akhriyaa

### 5.2 Aqoonsiga tirooyin 6 god ah

Ku hoos qor tirooyinka uu muujinayo abakas kasta

<p>Bku Tku ku B T K</p> <p>3 2 4, 5 1 2</p>	<p>Bku Tku ku B T K</p>
<p>Bku Tku ku B T K</p>	<p>Bku Tku ku B T K</p>
<p>Bku Tku ku B T K</p>	<p>Bku Tku ku B T K</p>
<p>Bku Tku ku B T K</p>	<p>Bku Tku ku B T K</p>
<p>Bku Tku ku B T K</p>	<p>Bku Tku ku B T K</p>

### Qilme rugedka tirooyin 6 god

### 5.3

Ka shaqee adigoo raacaya tusaalaha ugu horreeya

256,320 =  Boqol kumaad  Toban kumaad  Kumaad  Boqolaad  Tobnaad  koowaad

347,891 =  Boqol kumaad  Toban kumaad  Kumaad  Boqolaad  Tobnaad  koowaad

489,532 =  Boqol kumaad  Toban kumaad  Kumaad  Boqolaad  Tobnaad  koowaad

750,612 =  Boqol kumaad  Toban kumaad  kumaad  Boqolaad  Tobnaad  koowaad

518963 =  Boqol kumaad  Toban kumaad  kumaad  Boqolaad  Tobnaad  koowaad

Dhammaystir adigoo raacaya tusaalaha ugu horreeya

32 5684 = 300000 + 20000 + 5000 + 600 + 80 + 4

41 9702 = \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_

67 8004 = \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_

56 3490 = \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_

77 9332 = \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_

86 1983 = \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_

Ka jawaab su'aalahan soo socda.

Waa maxay qiimaha 6 ee tiraadan 184,623? 600

Waa maxay qiimaha 4 ee tiradan 224,025? \_\_\_\_\_

Waa maxay qiimaha 7 ee tiradan 460,372? \_\_\_\_\_

Waa maxay qiimaha 7 ee tiradan 172,460? \_\_\_\_\_

Waa maxay qiimaha 6 ee tiradan 753,426? \_\_\_\_\_

Waa maxay qiimaha 3 ee tiradan 360,051? \_\_\_\_\_



### 5.4 Akhriska iyo qoritaanka tirooyin 6 god ah

Tiro walba ereyo ahaan u qor.

357,213 = Saddex boqol konton iyo toddobakun, laba boqol toban iyo saddex  
 562,341 =  
 453,202 =  
 661,987 =  
 870,126 =  
 913,000 =

Tiro kasta qor astiradeeda.

Laba boqol lixdan iyo afar kun, siddeed boqol labaatan iyo shan.

264825

Saddex boqol afartan iyo shan kun, laba boqol soddon iyo afar.

Shan boqol sagaashan iyo laba kun, shan boqol iyo toddobaatan.

Toddoba boqol toban iyo afar kun, sagaal boqol labaatan iyo kow.

Sagaal boqol labaatan iyo kow kun, afar boqol iyo shan.

Lix boqol afartan iyo shan kun, siddeed boqol soddon iyo saddex.

Guuri isla markaana dhammaystir tusaha hoose.

- Afar boqol, lixdan iyo siddeed kun, saddex boqol labaatan iyo kow.
- Siddeed boqol iyo soddon kun, lix boqol sagaashan iyo labo.
- Laba boqol toban iyo saddex kun, iyo shan boqol.
- Shan boqol toban iyo shan kun, saddex boqol iyo afar.
- Saddex boqol soddon iyo afar kun, siddeed boqol iyo afartan.
- Sagaal boqol soddon iyo kow kun, laba boqol iyo sagaal.

Bku	Tku	ku	B	T	K
4	6	8	3	2	1

### Horsanaanta tirooyin 6 god ah

5.5

U qor tirooyinka soo socda si horsan, adigoo uu hormarinaya tan ugu yar

B)	311,005	567,421	610,111	909,342
T)	227,261	180,752	150,009	299,141
J)	201,415	311,932	416,125	839,116
X)	700,865	908,633	809,433	900,094
KH)	909,943	990,941	999,909	999,999

Qor tirada ugu yar iyo ta ugu weyn ee ka samaysmi karta tirooyin ka lagu siiyey

Tirooyin	Tirada ugu weyn	Tirada ugu yar
1, 4, 3, 5, 7, 6	765,431	134,567
3, 2, 4, 2, 6, 8		
6, 5, 3, 7, 4, 6		
4, 8, 0, 9, 7, 6		
3, 6, 1, 0, 7, 3		
5, 6, 7, 8, 6		

- Kasta geli > ama <
- |         |                       |         |         |                       |         |
|---------|-----------------------|---------|---------|-----------------------|---------|
| 110,555 | <input type="radio"/> | 115,555 | 222,388 | <input type="radio"/> | 221,308 |
| 499,379 | <input type="radio"/> | 514,730 | 415,006 | <input type="radio"/> | 514,600 |
| 219,989 | <input type="radio"/> | 199,081 | 169,413 | <input type="radio"/> | 110,431 |
| 927,014 | <input type="radio"/> | 179,947 | 387,041 | <input type="radio"/> | 493,863 |
| 127,014 | <input type="radio"/> | 331,630 | 776,341 | <input type="radio"/> | 631,064 |
| 570,009 | <input type="radio"/> | 470,040 | 600,993 | <input type="radio"/> | 514,009 |

### 5.6 Sansaanka fidsan ee tirooyin ilaa 6 god ah

B- U qor tirooyinka soo socda sansaanka fidsan

1. 38,674                      2. 59,760                      3. 78,543
4. 463,790                    5. 600,934                    6. 934,568

T- U qor tirooyinkan habka gaaban

1.  $400000 + 30000 + 5000 + 600 + 90 + 1$
2.  $600000 + 50000 + 2000 + 500 + 80 + 4$
3.  $10000 + 1000 + 300 + 20$
4.  $700000 + 40000 + 2000 + 400 + 90 + 2$

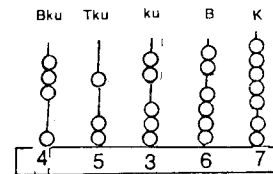
J- Raadi qiimaha n si ay weedhuhu u noqdan run.

1.  $5,468 = 5000 + n + 60 + 8$
2.  $29,705 = 20000 + n + 700 + 5$
3.  $416,357 = n + 10000 + 6000 + 300 + 50 + 7$
4.  $837,361 = n + 30000 + n + 300 + 60 + 1$
5.  $993,943 = 900000 + n + 3000 + 900 + n + 3$

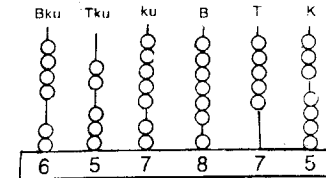
X- Isticmaal summadda  $>$ ,  $<$  ama  $=$  si aad u dhammaystirtid weedhooyinkan hoose.

1.  $6,789$  \_\_\_\_\_  $6000 + 800 + 80 + 9$
2.  $49,742$  \_\_\_\_\_  $40000 + 7000 + 40 + 2$
3.  $346,831$  \_\_\_\_\_  $300000 + 50000 + 6000 + 800 + 30 + 1$
4.  $645,876$  \_\_\_\_\_  $600000 + 40000 + 5000 + 800 + 70 + 6$

### Isugeynta tirooyin 5-6 god ah qaadasho la'aan.



$$\begin{array}{r} 32125 \\ + 13242 \\ \hline 45367 \end{array}$$



$$\begin{array}{r} 425735 \\ + 232140 \\ \hline 657875 \end{array}$$

Raadi wadarta tirooyinkan.

$\begin{array}{r} 21835 \\ + 38114 \\ \hline \end{array}$	$\begin{array}{r} 75002 \\ + 23997 \\ \hline \end{array}$	$\begin{array}{r} 42125 \\ + 13042 \\ \hline \end{array}$
$\begin{array}{r} 63461 \\ + 22535 \\ \hline \end{array}$	$\begin{array}{r} 342106 \\ + 153241 \\ \hline \end{array}$	$\begin{array}{r} 535613 \\ + 234026 \\ \hline \end{array}$
$\begin{array}{r} 158549 \\ + 641330 \\ \hline \end{array}$	$\begin{array}{r} 143561 \\ + 453238 \\ \hline \end{array}$	$\begin{array}{r} 444372 \\ + 102326 \\ \hline \end{array}$
$\begin{array}{r} 27320 \\ 41152 \\ + 11423 \\ \hline \end{array}$	$\begin{array}{r} 178031 \\ 620542 \\ + 200326 \\ \hline \end{array}$	$\begin{array}{r} 424360 \\ 141515 \\ + 314123 \\ \hline \end{array}$

6.2 Isugeynta tirooyin 5—6 god ah qaadasho la'aan.

Isugee adoo isticmaalaya sansaanka fidsan

$$\begin{array}{r} \xrightarrow{\hspace{2cm}} \\ 62543 = 60000 + 2000 + 500 + 40 + 3 \quad \downarrow \\ + 14352 = 10000 + 4000 + 300 + 50 + 2 \quad \downarrow \\ \hline 70000 + 6000 + 800 + 90 + 5 = 76895 \end{array}$$

Talaabooyinkan qaad-markaad habkan isticmaalsid.

1. U qor sansaan fidsan.
2. Raadi wadarahe tirooyinka isku qiimaha ah.
3. Magacaw wadarta oo sansaan gaaban ah.

Raadi wadarta adoo inticmaalaya sansaanka fidsan.

$$\begin{array}{r} 34671 \\ + 24216 \\ \hline \end{array}$$

$$\begin{array}{r} 12345 \\ + 22334 \\ \hline \end{array}$$

$$\begin{array}{r} 32416 \\ + 61141 \\ \hline \end{array}$$

$$\begin{array}{r} 413681 \\ + 334212 \\ \hline \end{array}$$

$$\begin{array}{r} 345678 \\ + 641221 \\ \hline \end{array}$$

$$\begin{array}{r} 214432 \\ + 553136 \\ \hline \end{array}$$

$$\begin{array}{r} 21416 \\ 12341 \\ + 31211 \\ \hline \end{array}$$

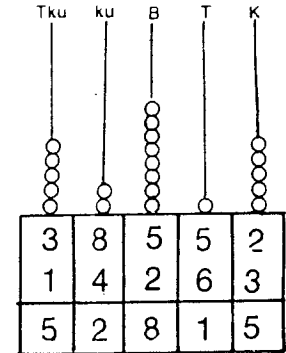
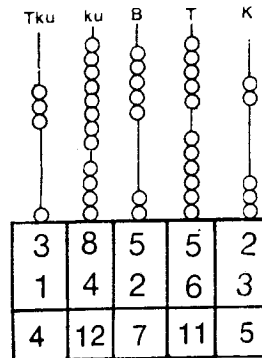
$$\begin{array}{r} 451234 \\ 314421 \\ + 123231 \\ \hline \end{array}$$

$$\begin{array}{r} 32132 \\ 12354 \\ + 12312 \\ \hline \end{array}$$

Isugeynta tirooyin 5-6 god ah oo leh qaadasho.

6.3

Raadi wadarta 38553 + 14263



$$\begin{array}{r} 41326 \\ + 12968 \\ \hline \end{array}$$

$$\begin{array}{r} 319576 \\ + 400342 \\ \hline \end{array}$$

$$\begin{array}{r} 15534 \\ + 21759 \\ \hline \end{array}$$

$$\begin{array}{r} 390376 \\ + 469452 \\ \hline \end{array}$$

$$\begin{array}{r} 283467 \\ + 108482 \\ \hline \end{array}$$

$$\begin{array}{r} 728123 \\ + 34085 \\ \hline \end{array}$$

$$\begin{array}{r} 763578 \\ + 123914 \\ \hline \end{array}$$

$$\begin{array}{r} 685863 \\ + 43734 \\ \hline \end{array}$$

$$\begin{array}{r} 69216 \\ + 13174 \\ \hline \end{array}$$

$$\begin{array}{r} 53564 \\ + 19380 \\ \hline \end{array}$$

$$\begin{array}{r} 647123 \\ + 39047 \\ \hline \end{array}$$

$$\begin{array}{r} 485113 \\ + 242946 \\ \hline \end{array}$$

$$\begin{array}{r} 877414 \\ + 102832 \\ \hline \end{array}$$

$$\begin{array}{r} 49356 \\ + 30823 \\ \hline \end{array}$$

$$\begin{array}{r} 573118 \\ + 90043 \\ \hline \end{array}$$

$$\begin{array}{r} 683156 \\ + 308480 \\ \hline \end{array}$$

### 6.4 Isugeynta tirooyin 5—6 god ah oo leh qaadasho.

Isugee adoo isticmaalaya sansaanka fidsan.

$$\begin{array}{l}
 \longrightarrow \\
 647925 = 600000 + 40000 + 7000 + 900 + 20 + 5 \\
 + 161437 = 100000 + 60000 + 1000 + 400 + 30 + 7 \\
 \hline
 700000 + 100000 + 8000 + 1300 + 50 + 12 = 809362 \\
 \longrightarrow
 \end{array}$$

Raadi wadarta adoo isticmaalaya sansaanka fidsan.

$  \begin{array}{r}  46824 \\  + 34182 \\  \hline  \end{array}  $	$  \begin{array}{r}  84629 \\  + 13686 \\  \hline  \end{array}  $	$  \begin{array}{r}  34567 \\  + 27113 \\  \hline  \end{array}  $
$  \begin{array}{r}  246528 \\  + 180512 \\  \hline  \end{array}  $	$  \begin{array}{r}  774119 \\  + 209921 \\  \hline  \end{array}  $	$  \begin{array}{r}  246528 \\  + 180512 \\  \hline  \end{array}  $
$  \begin{array}{r}  36248 \\  2921 \\  + 21123 \\  \hline  \end{array}  $	$  \begin{array}{r}  28456 \\  3214 \\  + 1552 \\  \hline  \end{array}  $	$  \begin{array}{r}  6284 \\  32345 \\  + 2118 \\  \hline  \end{array}  $
$  \begin{array}{r}  443862 \\  54281 \\  + 255338 \\  \hline  \end{array}  $	$  \begin{array}{r}  672945 \\  83164 \\  + 26111 \\  \hline  \end{array}  $	$  \begin{array}{r}  82124 \\  299631 \\  + 11672 \\  \hline  \end{array}  $

### Isugeynta tirooyin 5—6 god ah.

6.5

**Tusaale :**

Markab ayaa laba maalmood oo isku xiga laga kala dejiyey 537653 iyo 81,925 jawaan oo bariis ah. Immisa jawaan ayaa markabka laga dejiyey Labada maalmood

**Furfuris:**

Tirooyinka waxaan isugu aadinaynaa sida ay isugu qiime-rugeedka yihiin.

B ku	T ku	ku	B	T	K
①		①		①	
5	3	7	6	5	3
	8	1	9	6	5
6	1	9	6	1	8

Raadi wadarta tirooyinka soc socda.

$  \begin{array}{r}  32135 \\  + 14986 \\  \hline  \end{array}  $	$  \begin{array}{r}  76002 \\  + 13998 \\  \hline  \end{array}  $	$  \begin{array}{r}  533210 \\  + 287839 \\  \hline  \end{array}  $
$  \begin{array}{r}  158589 \\  + 747968 \\  \hline  \end{array}  $	$  \begin{array}{r}  280067 \\  + 369875 \\  \hline  \end{array}  $	$  \begin{array}{r}  554379 \\  + 265837 \\  \hline  \end{array}  $
$  \begin{array}{r}  21418 \\  22341 \\  + 10896 \\  \hline  \end{array}  $	$  \begin{array}{r}  18746 \\  10493 \\  + 6380 \\  \hline  \end{array}  $	$  \begin{array}{r}  61084 \\  11273 \\  + 10829 \\  \hline  \end{array}  $

## Tusaale 1:

U qor tiradan  $247 + 423$   
joog ahaan isla markaana  
raadi wadarta.

## Furfuris:

$$\begin{array}{r} 247 \\ + 423 \\ \hline 670 \end{array}$$

## Tusaale 2:

Raadi wadarta

$$286143 + 27385$$

$$\begin{array}{r} \textcircled{1} \textcircled{1} \textcircled{1} \\ 286143 \\ + 27385 \\ \hline 313528 \end{array}$$

U qor joog ahaan, isla markaana raadi wadarta.

1.  $2398 + 503$
2.  $2445 + 3290$
3.  $1339 + 19$
4.  $5212 + 378$
5.  $3290 + 3454$
6.  $3466 + 2273$
7.  $286113 + 27385$
8.  $15324 + 38200$
9.  $400579 + 233421$
10.  $864212 + 121783$
11.  $829909 + 135141$
12.  $121743 + 111287$

Furfur mas'alooyinka soo socda:

1. Iskaashato beeraley ah ayaa 17896 geed oo liin ah abuurtay, haddana saddex bilood kaddib waxay abuurteen 378 geed oo cambe ah. Immisa geed ayaa iskaashatadu abuurtay?
2. Degmo ayaa waxaa deggan 48713 oo qof, degmo kalena waxaa deggan 31469 oo qof. Soo saar tirada dadka deggan labada degmo.
3. Shirkad dhismo ayaa waxay hal sano faa'iiday 141519 Shilin, sannadkii labaadna waxay faa'iiday 225688 Shilin. Raadi faa'iidada Shirkadda ee labada sano?

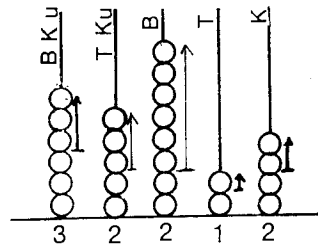
## MAS'ALOOYIN

1. Xuseen oo ay Bangiga hore ugu tiilley 567,648 shilin, ayaa wuxuu kaloo dhigtay 382,591 shilin. Immisa ayaa u taal bangiga hadda?
2. Saddex qof ayaa mushaar-biloodkoodu kala yahay 7685 shilin, 12550 shilin iyo 345650 shilin. Sheeg wadarta lacageed ee saddexda qof qataan bil kasta?
3. Caasha waxa ay raacdaa 1829 riyo ah. Cali wuxuu raacaa 493 geel ah. Faadumo waxa ay raacdaa 561 ido ah. Cabdi wuxuu raacaa 1211 lo' ah. Immisa xoolo ah ayaa afarta qof raacaan?
4. Garoon kubbadeed ayaa afar maalmood oo isku xiga waxa ciyaaro ku daawaday 42 389, 9835, 44 500, iyo 28674 oo qof. Immisa qof ayaa ciyaaraha daawaday?
5. Sheeg wadarta: boqol labaatan iyo siddeed kun shan boqol lixdan iyo afar, iyo toddobaatan iyo saddex kun sagaal boqol toban iyo siddeed.

7.2

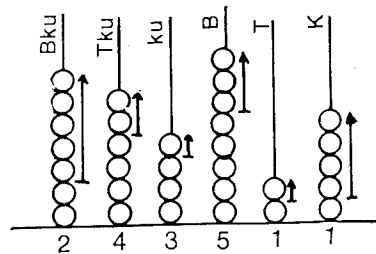
Kala goynta tirooyin 5-6 god ah amaahasho la'aan.

Tusaalooyin: Raadi faraqa 65824 — 33612



$$\begin{array}{r} 65824 \\ - 33612 \\ \hline 32212 \end{array}$$

Raadi faraqa 764825 — 521314



$$\begin{array}{r} 764825 \\ - 521314 \\ \hline 243511 \end{array}$$

Raadi faraqa tirooyinkan

$$\begin{array}{r} 98775 \\ - 65320 \\ \hline \end{array}$$

$$\begin{array}{r} 85990 \\ - 42750 \\ \hline \end{array}$$

$$\begin{array}{r} 93732 \\ - 52721 \\ \hline \end{array}$$

$$\begin{array}{r} 364829 \\ - 122602 \\ \hline \end{array}$$

$$\begin{array}{r} 645234 \\ - 341220 \\ \hline \end{array}$$

$$\begin{array}{r} 492058 \\ - 251036 \\ \hline \end{array}$$

$$\begin{array}{r} 714929 \\ - 203801 \\ \hline \end{array}$$

$$\begin{array}{r} 559783 \\ - 48612 \\ \hline \end{array}$$

$$\begin{array}{r} 720512 \\ - 20401 \\ \hline \end{array}$$

Kala goynta tirooyin 5-6 god ah oo leh amaahasho.

7.3

kala goo adoo isticmaalaya sansaanka fidsan

$$\begin{array}{r} \rightarrow \quad \boxed{50000} \quad \boxed{14000} \quad \boxed{70} \quad \boxed{16} \\ 64586 = \uparrow 60000 + 4000 + 500 + 80 + 6 \\ - 41628 = 40000 + 7000 + 200 + 50 + 9 \\ \hline 10000 + 7000 + 300 + 20 + 7 = 17327 \end{array}$$

1. U qor sansaan fidsan.
2. Mar kale fidi haddii loo baahdo.
3. Raadi faraqa tirooyinka isku qiimaha ah.
4. Magacow wadarta oo sansaan gaaban ah.

Raadi faraqa adoo isticmaalaya sansaanka fidsan.

$$\begin{array}{r} 36524 \\ - 12716 \\ \hline \end{array}$$

$$\begin{array}{r} 36534 \\ - 19847 \\ \hline \end{array}$$

$$\begin{array}{r} 55942 \\ - 31561 \\ \hline \end{array}$$

$$\begin{array}{r} 17296 \\ - 8815 \\ \hline \end{array}$$

$$\begin{array}{r} 81656 \\ - 20727 \\ \hline \end{array}$$

$$\begin{array}{r} 16800 \\ - 4005 \\ \hline \end{array}$$

$$\begin{array}{r} 814347 \\ - 603796 \\ \hline \end{array}$$

$$\begin{array}{r} 906742 \\ - 278586 \\ \hline \end{array}$$

$$\begin{array}{r} 713604 \\ - 281463 \\ \hline \end{array}$$

$$\begin{array}{r} 442176 \\ - 161627 \\ \hline \end{array}$$

$$\begin{array}{r} 194732 \\ - 59667 \\ \hline \end{array}$$

$$\begin{array}{r} 504956 \\ - 215967 \\ \hline \end{array}$$

7.4 Kala goynta tirooyin 5 god ah oo leh amaahasho.

Tusaale:

Raadi faraqa 87463 — 35927

Marka tirooyinkan loo qoro joog ahaan waxay noqonayaan

sidatan:

$$\begin{array}{r}
 \text{Tku} \quad \text{ku} \quad \text{B} \quad \text{T} \quad \text{K} \\
 8 \quad 7 \quad 4 \quad 6 \quad 3 \\
 -3 \quad 5 \quad 9 \quad 2 \quad 7 \\
 \hline
 \end{array}
 \rightarrow
 \begin{array}{r}
 \textcircled{6} \quad \textcircled{14} \quad \textcircled{5} \quad \textcircled{13} \\
 8 \quad 7 \quad 4 \quad 6 \quad 3 \\
 -3 \quad 5 \quad 9 \quad 2 \quad 7 \\
 \hline
 5 \quad 1 \quad 5 \quad 3 \quad 6
 \end{array}$$

Fiiro tusaalaha sare kana jawaab su'aalaha soo socda:

Maxaa loo kari waayey in koowaadyada la kala gooyo?

Maxaa la sameeyey si Kowaadyada loo kala gooyo?

Sheeg tirada soo baxday marka kowaadyada la kala gooyey?

Maxaa la sameeyey marka la kala goynayey tobhaadyada boqolaadyada iyo kumaadyada. Sheeg tirada soo baxday ee toban kumaadka ah, markii labada tiro la kala gooyey?

Raadi faraqa tirooyinkan.

$$\begin{array}{r}
 54329 \\
 - 25548 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 36854 \\
 - 14936 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 76352 \\
 - 58190 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 65248 \\
 - 26729 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 45365 \\
 - 16827 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 83942 \\
 - 49736 \\
 \hline
 \end{array}$$

Kala goynta tirooyin 6 god ah oo leh amaahasho.

7.5

Tusaale:

Cali oo ay bangigau taallay lacag dhan 383,762 Shilin, ayaa wuxuu qaatay 145,926 Shilin. Intee lacag ah baa ugu hadhay bangiga?

Furfuris:

Tirooyinkan waxaan isugu aaddinaynaa sida ay isugu qiime rugeedka yihiin.

Bku	Tku	ku	B	T	K
	<del>7</del>	<del>12</del>	<del>17</del>	<del>5</del>	<del>12</del>
3	<del>8</del>	<del>3</del>	<del>7</del>	<del>6</del>	<del>2</del>
— 1	4	5	9	2	6
2	3	7	8	3	6

Raadi faraqa tirooyinka soo socda:

$$\begin{array}{r}
 654527 \\
 - 496634 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 345674 \\
 - 163735 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 465603 \\
 - 183792 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 563537 \\
 - 241298 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 963952 \\
 - 372481 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 892302 \\
 - 671203 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 910101 \\
 - 254663 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 732059 \\
 - 524360 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 559324 \\
 - 275675 \\
 \hline
 \end{array}$$

<p><b>Tusaale:</b></p> <p>U qor tiradan 6045 — 3132.</p> <p>joog ahaan isla markaana raadi faraaqa.</p> <p><b>Furfuris:</b></p> $\begin{array}{r} 6045 - 3132 \rightarrow \\ \underline{2913} \end{array}$	<p><b>Tusaale:</b></p> <p>Raadi faraaqa 865340 — 374839</p> $\begin{array}{r} \overset{7}{8} \overset{16}{6} \overset{4}{5} \overset{13}{3} \overset{13}{4} \overset{10}{0} \\ - 374839 \\ \hline 490501 \end{array}$
--	---

U qor joog ahaan, isla markaana raadi faraaqa.

- |                    |                    |
|--------------------|--------------------|
| 1. 278264 — 133495 | 6. 535700 — 261455 |
| 2. 354527 — 189713 | 7. 160000 — 102354 |
| 3. 128419 — 105637 | 8. 743495 — 584673 |
| 4. 437532 — 166461 | 9. 868254 — 584673 |
| 5. 657630 — 19584  | 10. 805063 — 43749 |

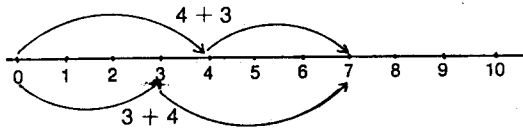
Furfur mas'alooyinka soo socda:

1. Reer xoolo-dhaqato ah ayaa waxay lahaayeen 18,426 neef oo ari ah, waxay iska iibiyeen 2,849 neef. Immisa neef ayaa u soo haray?
2. Magaalo ay deggan yihiin 284,300 qof, ayaa waxaa haween ah 145,850. Waa immisa tirada raggu?
3. Iskaashato beeraley ah ayaa waxay gadday 411,925 kiintaal oo isugu jiray bariis iyo galley. Haddii tirada kiintaallada ee bariisku uu ahaa 134,590. Waa immisa tirada kiintaallada ee galleyda.

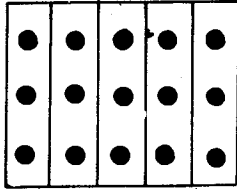
## MAS'ALOOYIN

1. Cabdi ayaa u baahday inuu iibsado guri qiimihiisu yahay 832674 shilin. wuxuu hadda haystaa 463817 shilin. Imissa lacag ah oo kale ayuu u baahan yahay si uu u iibsado giriga?.
2. Intee bay kala weyn yihiin tirooyinka 64328 iyo 25297?.
3. Nin ayaa baabuur ku iibsaday 300450 shilin. laba sano ka dib ayuu ku sii iibiyey 250565 shilin. Immisa ayuu qiimaha baabuurku hoos u dhacay labada sano?.
4. Dukaanle ayaa iibsadey alaab qiimaheedu dhammaa 76450 shilin. Markuu sii iibiyey ayaa waxay noqotay 82135 shilin. Immisa ayuu ka macaashay?
5. Sheeg faraaqa: Siddeed boqol soddon iyo laba kun lix boqol toddobaatan iyo afar, iyo afar boqol lixdan iyo saddex kun Sided boqol toban iyo todooba.

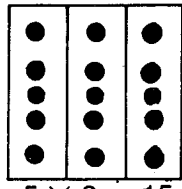




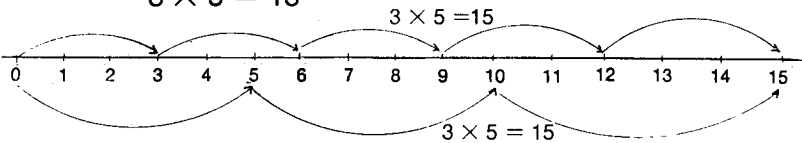
Waxaan aragnaa in  $4 + 3 = 3 + 4$ . Haddii laba biiro la kala hormarsho, wadartu isma beddesho.



$$3 \times 5 = 15$$



$$5 \times 3 = 15$$



Waxaan aragnaa in  $5 \times 3 = 3 \times 5$ .

Haddii isirrada la kala hormarsho, tarantu isma beddesho.

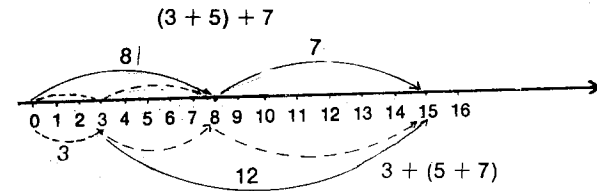
Raadi biirada maqan.

- |                         |                            |
|-------------------------|----------------------------|
| (b) $7 + 5 = n + 7$     | (d) $n + 53 = 53 + 8$      |
| (t) $6 + n = 8 + 6$     | (r) $112 + n = 102 + 112$  |
| (j) $9 + 7 = 7 + n$     | (s) $314 + 19 = 19 + n$    |
| (x) $12 + 6 = n + 12$   | (sh) $792 + n = 843 + 792$ |
| (kh) $47 + 95 = 95 + n$ | (dh) $931 + 169 = n + 931$ |

Raadi isirka maqan.

- |                                    |                                    |
|------------------------------------|------------------------------------|
| (b) $n \times 3 = 3 \times 4$      | (d) $8 \times n = 4 \times 8$      |
| (t) $26 \times 5 = n \times 5$     | (r) $0 \times 3 = 3 \times n$      |
| (j) $17 \times 4 = n \times 17$    | (s) $9 \times 44 = 44 \times n$    |
| (x) $92 \times 5 = n \times 92$    | (sh) $2 \times 324 = 324 \times n$ |
| (kh) $121 \times 3 = n \times 121$ | (dh) $102 \times 6 = n \times 102$ |

Saddex tiro marka aan isugeyneyno, labada aan doonno ayaa aan ka bilaabi karraa



Waxaan ka bilaabi karnaa labada hore ama labada dambe:

$$\begin{aligned} (3 + 5) + 7 &= 8 + 7 \\ &= 15 \end{aligned}$$

$$\begin{aligned} 3 + (5 + 7) &= 3 + 12 \\ &= 15 \end{aligned}$$

Isugeynta laba biiro ka badan, si kasta oo loo hormo geliyo, wadartu isma beddesho.

Saddex isir marka aan isku dhufanayno, hadba labada aan doonno ayaa aan ku bilaabi karnaa

$$3 \times 4 \times 5$$

Ku bilow labada hore ama ku bilow labada dambe

$$\begin{aligned} (3 \times 4) \times 5 &= 12 \times 5 \\ &= 60 \end{aligned}$$

$$\begin{aligned} 3 \times (4 \times 5) &= 3 \times 20 \\ &= 60 \end{aligned}$$

isku dhufashada laba isir ka badan, si kasta oo loo hormogeliyo, taranku isma beddeio.

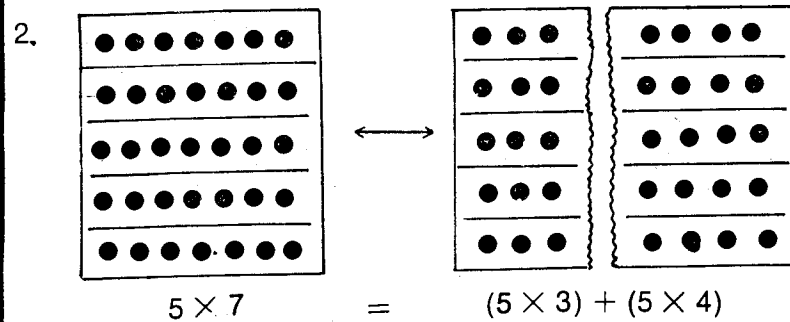
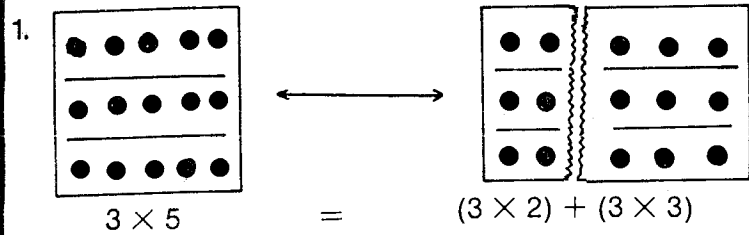
Raadi wadarta. Raac hormogelinta ama dooro hadba sida hawsha yar.

- |                       |                      |
|-----------------------|----------------------|
| (b) $(4 + 6) + 8$     | (d) $9 + (13 + 7)$   |
| (t) $8 + 9 + 1$       | (r) $23 + 6 + 34$    |
| (j) $(65 + 5) + 28$   | (s) $(48 + 52) + 37$ |
| (x) $17 + 3 + 5$      | (sh) $98 + 55 + 45$  |
| (kh) $72 + (63 + 37)$ | (dh) $43 + 27 + 67$  |

Raadi taranka. Raac hormogelinta ama doro hadba sida ugu hawsha yar.

- |                              |                                |
|------------------------------|--------------------------------|
| (b) $(3 \times 6) \times 2$  | (d) $(4 \times 9) \times 8$    |
| (t) $5 \times 2 \times 4$    | (r) $9 \times 0 \times 5$      |
| (j) $5 \times (6 \times 8)$  | (s) $(17 \times 4) \times 9$   |
| (x) $8 \times 10 \times 4$   | (sh) $123 \times (3 \times 2)$ |
| (kh) $(4 \times 6) \times 3$ | (dh) $593 \times 1 \times 0$   |

Tusaale

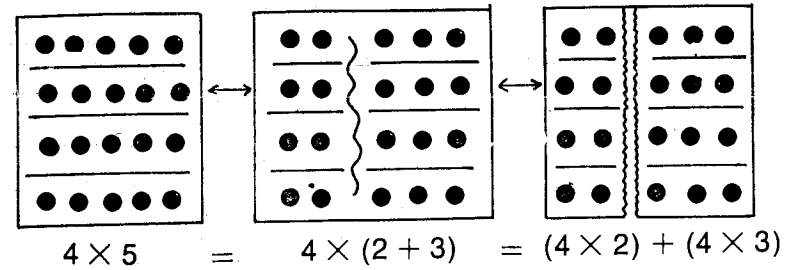


U fiirso. isku dhufashadu waxa loo kala dhigay laba taran, kaddibna waa la isugeeyey

Raadi tirooyinka maqan.

- (b)  $n \times 9 = (3 \times 5) + (3 \times 4)$
- (t)  $8 \times n = (8 \times 3) + (8 \times 4)$
- (j)  $3 \times 6 = (3 \times n) + (3 \times 2)$
- (x)  $7 \times n = (7 \times 1) + (7 \times 4)$
- (kh)  $7 \times 8 = (7 \times 4) + (7 \times n)$
- (d)  $4 \times n = (4 \times 10) + (4 \times 7)$
- (r)  $8 \times 7 = (8 \times n) + (8 \times 5)$
- (s)  $(4 \times 10) + (4 \times 7) = 4 \times n$
- (sh)  $9 \times 8 = (9 \times 6) + (9 \times n)$
- (dh)  $(6 \times 10) + (6 \times 9) = 6 \times n$
- (c)  $(n \times 8) = (4 \times 5) + (4 \times 3)$
- (g)  $n \times 16 = (8 \times 10) + (8 \times 6)$

Tusaale



Isku dhufashadu way kala dhigantaa marka isirrada la kala qaado ama yihiin laba biiro.

Raadi tirooyinka maqan.

- (b)  $3 \times 8 = 3 \times (5 + n)$
- (t)  $6 \times (2 + 5) = (6 \times n) + (6 \times 5)$
- (j)  $9 \times 4 = n \times (3 + 1)$
- (x)  $8 \times (n + 2) = (8 \times 4) + (8 \times 2)$
- (kh)  $n \times 3 = 7 \times (1 + 3)$
- (d)  $5 \times (3 + n) = (5 \times 3) + (5 \times 4)$
- (r)  $7 \times n = 7 \times (10 + 2)$
- (s)  $6 \times (n + 7) = (6 \times 3) + (6 \times 7)$
- (sh)  $4 \times 13 = 4 \times (10 + n)$
- (dh)  $n \times (5 + 4) = (6 \times 5) + (6 \times 4)$
- (c)  $6 \times 10 = 6(n + 7)$
- (6)  $9 \times (3 + n) = (9 \times 3) + (9 \times 1)$

**8.6** Iskudhufashada tirooyin ilaa 3 - god ah iyo tiro 1 - god ah.

**Tusaalooyin**

$$\begin{array}{r} T \quad K \\ 4 \quad 3 \\ \times 2 \\ \hline \end{array}$$

6 = 2 × 3 kowaad

8 = 2 × 4 Tobnaad

8 6 = Wadar

$$\begin{array}{r} B \quad T \quad K \\ 2 \quad 9 \quad 7 \\ \times 6 \\ \hline 12 \quad 54 \quad 42 \\ \hline 1782 \end{array}$$

= 6 × 7 kowaad

= 6 × 9 Tobnaad

= 6 × 2 Boqolaad

= Wadar

Tusaalooyinka sare waxa ay muujinayaan hal hab oo laysugu dhufan karo tirooyin ilaa 3 god ah iyo tiro 1 god ah, waxaana loo soo gaabin karaa habkan soo socda oo ah habka isku dhufashada gaaban. Raadi taranta adoo isticmaalaya habka isku dhufashada gaaban

$$\begin{array}{r} 4 \quad 3 \\ \times 2 \\ \hline 8 \quad 6 \end{array}$$

$$\begin{array}{r} 5 \quad 4 \\ 2 \quad 9 \quad 7 \\ \times 6 \\ \hline 1782 \end{array}$$

Raadi taranka adoo isticmaalaya habka iskudhufashada gaaban

$\begin{array}{r} 32 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 90 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 82 \\ \times 4 \\ \hline \end{array}$	$\begin{array}{r} 36 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 75 \\ \times 4 \\ \hline \end{array}$	$\begin{array}{r} 96 \\ \times 7 \\ \hline \end{array}$
$\begin{array}{r} 346 \\ \times 2 \\ \hline \end{array}$	$\begin{array}{r} 930 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 812 \\ \times 4 \\ \hline \end{array}$	$\begin{array}{r} 502 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 640 \\ \times 7 \\ \hline \end{array}$	$\begin{array}{r} 395 \\ \times 6 \\ \hline \end{array}$
$\begin{array}{r} 354 \\ \times 7 \\ \hline \end{array}$	$\begin{array}{r} 418 \\ \times 5 \\ \hline \end{array}$	$\begin{array}{r} 203 \\ \times 6 \\ \hline \end{array}$	$\begin{array}{r} 624 \\ \times 7 \\ \hline \end{array}$	$\begin{array}{r} 834 \\ \times 4 \\ \hline \end{array}$	$\begin{array}{r} 953 \\ \times 6 \\ \hline \end{array}$

**Ku dhufashada 10, 100, 1000 iwm.**

**9.1**

U fiirso sida gaaban ee taranka loo gaarayo mar kasta.

**Tusaale 1 :**

Marka dhufatuhu yahay 10, 100, 1000 iwm.

(i)  $36 \times 10 = 360$

(ii)  $36 \times 100 = 3600$

(iii)  $36 \times 1000 = 36000$

(iv)  $36 \times 10,000 = 360,000$

**Tusaale 2 :**

Marka isirradu yihiin 20, 40, 600, iwm:

(i)  $20 \times 40 = (2 \times 4) \times 100 = 800$

(ii)  $30 \times 60 = (3 \times 6) \times 100 = 1800$

(iii)  $7 \times 80 = (7 \times 8) \times 10 = 560$

(iv)  $500 \times 70 = (5 \times 7) \times 1000 = 35000$

(v)  $400 \times 600 = (4 \times 6) \times 10,000 = 240,000$

Raadi taranka

- |                         |                         |
|-------------------------|-------------------------|
| (1) $31 \times 10 =$    | (7) $800 \times 100 =$  |
| (2) $72 \times 100 =$   | (8) $510 \times 100 =$  |
| (3) $86 \times 1000 =$  | (9) $90 \times 20 =$    |
| (4) $305 \times 100 =$  | (10) $700 \times 300 =$ |
| (5) $436 \times 1000 =$ | (11) $300 \times 900 =$ |
| (6) $70 \times 100 =$   | (12) $800 \times 420 =$ |

Raadi taranka 54 X 36

Habka dheer

$$\begin{array}{r} 54 \\ \times 36 \\ \hline 24 = 6 \times 4 \\ 300 = 6 \times 50 \\ 120 = 30 \times 4 \\ \hline 1500 = 30 \times 50 \\ 1944 \leftarrow \text{taran} \end{array}$$

Habka gaaban

$$\begin{array}{r} 54 \\ \times 36 \\ \hline 324 = 6 \times 54 \\ 1620 = 30 \times 54 \\ \hline 1944 \leftarrow \text{taran} \end{array}$$

Raadi taranka adoo isticmaalaya labada hab.

$$\begin{array}{r} 12 \\ \times 12 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ \times 14 \\ \hline \end{array}$$

$$\begin{array}{r} 22 \\ \times 15 \\ \hline \end{array}$$

$$\begin{array}{r} 24 \\ \times 11 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \\ \times 13 \\ \hline \end{array}$$

$$\begin{array}{r} 25 \\ \times 33 \\ \hline \end{array}$$

$$\begin{array}{r} 62 \\ \times 27 \\ \hline \end{array}$$

$$\begin{array}{r} 29 \\ \times 35 \\ \hline \end{array}$$

$$\begin{array}{r} 58 \\ \times 42 \\ \hline \end{array}$$

$$\begin{array}{r} 68 \\ \times 36 \\ \hline \end{array}$$

$$\begin{array}{r} 43 \\ \times 21 \\ \hline \end{array}$$

$$\begin{array}{r} 65 \\ \times 22 \\ \hline \end{array}$$

$$\begin{array}{r} 76 \\ \times 35 \\ \hline \end{array}$$

$$\begin{array}{r} 53 \\ \times 51 \\ \hline \end{array}$$

$$\begin{array}{r} 44 \\ \times 26 \\ \hline \end{array}$$

$$\begin{array}{r} 64 \\ \times 52 \\ \hline \end{array}$$

$$\begin{array}{r} 75 \\ \times 63 \\ \hline \end{array}$$

$$\begin{array}{r} 83 \\ \times 42 \\ \hline \end{array}$$

$$\begin{array}{r} 89 \\ \times 27 \\ \hline \end{array}$$

$$\begin{array}{r} 95 \\ \times 28 \\ \hline \end{array}$$

Raadi taranka 73 X 42.

Habka dheer

$$\begin{array}{r} 73 \\ \times 42 \\ \hline 146 = 2 \times 73 \\ 2920 = 40 \times 73 \\ \hline 3066 \leftarrow \text{taran} \end{array}$$

Habka gaaban

$$\begin{array}{r} 73 \\ \times 42 \\ \hline 146 \\ \hline 2920 \\ \hline 3066 \end{array}$$

Raadi taranka adoo isticmaalaya habka guud.

$$\begin{array}{r} 31 \\ \times 21 \\ \hline \end{array}$$

$$\begin{array}{r} 24 \\ \times 22 \\ \hline \end{array}$$

$$\begin{array}{r} 43 \\ \times 25 \\ \hline \end{array}$$

$$\begin{array}{r} 23 \\ \times 32 \\ \hline \end{array}$$

$$\begin{array}{r} 36 \\ \times 35 \\ \hline \end{array}$$

$$\begin{array}{r} 46 \\ \times 32 \\ \hline \end{array}$$

$$\begin{array}{r} 45 \\ \times 23 \\ \hline \end{array}$$

$$\begin{array}{r} 64 \\ \times 38 \\ \hline \end{array}$$

$$\begin{array}{r} 32 \\ \times 18 \\ \hline \end{array}$$

$$\begin{array}{r} 43 \\ \times 23 \\ \hline \end{array}$$

$$\begin{array}{r} 46 \\ \times 33 \\ \hline \end{array}$$

$$\begin{array}{r} 54 \\ \times 29 \\ \hline \end{array}$$

$$\begin{array}{r} 42 \\ \times 28 \\ \hline \end{array}$$

$$\begin{array}{r} 56 \\ \times 38 \\ \hline \end{array}$$

$$\begin{array}{r} 34 \\ \times 27 \\ \hline \end{array}$$

$$\begin{array}{r} 44 \\ \times 44 \\ \hline \end{array}$$

$$\begin{array}{r} 34 \\ \times 26 \\ \hline \end{array}$$

$$\begin{array}{r} 23 \\ \times 36 \\ \hline \end{array}$$

$$\begin{array}{r} 43 \\ \times 37 \\ \hline \end{array}$$

$$\begin{array}{r} 38 \\ \times 27 \\ \hline \end{array}$$

$$\begin{array}{r} 49 \\ \times 35 \\ \hline \end{array}$$

$$\begin{array}{r} 66 \\ \times 27 \\ \hline \end{array}$$

$$\begin{array}{r} 76 \\ \times 26 \\ \hline \end{array}$$

$$\begin{array}{r} 93 \\ \times 47 \\ \hline \end{array}$$

$$\begin{array}{r} 97 \\ \times 32 \\ \hline \end{array}$$

9.4 Iskudhufashada tiro 2-god ah iyo tiro 3-god ah

Raadi taranka 453 X 67.

Habka dheer

Habka gaaban

453  
 X 67  
 21 = 7 X 3  
 350 = 7 X 50  
 2800 = 7 X 400  
 180 = 60 X 3  
 3000 = 60 X 50  
 24000 = 60 X 400  
 30351 ← taran

453  
 X 67  
 3171 = 7 X 453  
 27180 = 60 X 453  
 30351 ← taran

Raadi taranka adoo isticmaalaya labada hab.

325 X 13.	146 X 25	749 X 22	240 X 19	723 X 17
604 X 25	218 X 27	303 X 16	345 X 29	416 X 33
255 X 66	417 X 37	343 X 71	421 X 56	423 X 28
561 X 94	789 X 62	629 X 84	785 X 75	507 X 49
693 X 28	375 X 95	883 X 34	789 X 87	936 X 68

Raadi taranka 1536 X 32.

Habka qaaban

Habka guud

1536  
 X 32  
 3072 = 2 X 1536  
 46080 = 30 X 1536  
 49152 ← taran

1536  
 X 32  
 3072  
 46080  
 49152 ← taran

Raadi taranka adoo isticmaalaya habka guud.

454 X 46	4300 X 16	1604 X 2	734 X 51	3604 X 21
5703 X 25	4338 X 3	657 X 38	5006 X 41	1647 X 11
4503 X 37	176 X 46	2437 X 9	493 X 32	8702 X 39
6407 X 38	7500 X 33	936 X 68	7739 X 16	7124 X 6
7343 X 95	2739 X 36	9004 X 39	8833 X 35	9345 X 43

MAS'ALOOYIN

1. Dugsi ka kooban 41 fasal, ayaa waxaa fasalkiiba ku jira 50 arday. Waa immisa tirada ardayda dugsigu ku jirtaa?
2. 38 xirmo oo qalmaan ah, ayaa ay xirmadiiba ka kooban tahay 12 qalin. Waa immisa qalin dhammaan xirmooyinku?
3. Beer ay ka go'day 2560 jawaan oo liin ah, ayaa jawaankiiba waxa ku jira 75 xabbo oo liin ah. Immisa xabbo oo liin ah ayaa beertaa laga goostay?
4. Waa immisa qiimaha 18 shaati oo mid kastaa yahay 860 Shilin?
5. Buug sheeko ah ayaa waxa uu ka kooban yahay 108 bog, boggiiba waxa ku yaalla 22 sadar. Immisa sadar ayaa buugga ku yaalla?
6. Nin ayaa waxa uu lahaa 12 carruur ah, iyo riyo badan. Mid kasta oo carruurtiisa ka mid ah waxa uu siiyey 108 riyo ah. Immisa riyo ah ayaa ninkaasi siiyey carruurtii?
7. Immisa xabbo oo saytuun ah ayaa ku jirta 35 dambiilood, oo middiiba ay ku jiraan 65 xabbo?
8. Nin ganacsade ah ayaa 48 saacadood ku soo gatay min 3870 Shilin. Immisa lacag ah ayuu dhammaan saacadahaasi ku soo gatay?

Raadi taranka 267 X 456.

$$\begin{array}{r}
 267 \text{ Habka dheer} \\
 \times 456 \\
 \hline
 42 = 6 \times 7 \\
 360 = 6 \times 60 \\
 1200 = 6 \times 200 \\
 350 = 50 \times 7 \\
 3000 = 50 \times 60 \\
 10000 = 50 \times 200 \\
 2800 = 400 \times 7 \\
 24000 = 400 \times 60 \\
 \underline{80000} = 400 \times 200 \\
 121772 \leftarrow \text{taran}
 \end{array}$$

Habka gaaban

$$\begin{array}{r}
 267 \\
 \times 456 \\
 \hline
 1602 = 6 \times 267 \\
 13350 = 50 \times 267 \\
 106800 = 400 \times 267 \\
 \underline{121772} \leftarrow \text{taran}
 \end{array}$$

Guuri, kaddibna kaga shaqee labada hab.

$\begin{array}{r} 368 \\ \times 510 \\ \hline \end{array}$	$\begin{array}{r} 809 \\ \times 263 \\ \hline \end{array}$	$\begin{array}{r} 482 \\ \times 300 \\ \hline \end{array}$	$\begin{array}{r} 379 \\ \times 345 \\ \hline \end{array}$	$\begin{array}{r} 257 \\ \times 234 \\ \hline \end{array}$
$\begin{array}{r} 146 \\ \times 242 \\ \hline \end{array}$	$\begin{array}{r} 605 \\ \times 333 \\ \hline \end{array}$	$\begin{array}{r} 517 \\ \times 444 \\ \hline \end{array}$	$\begin{array}{r} 264 \\ \times 222 \\ \hline \end{array}$	$\begin{array}{r} 316 \\ \times 634 \\ \hline \end{array}$
$\begin{array}{r} 462 \\ \times 153 \\ \hline \end{array}$	$\begin{array}{r} 621 \\ \times 243 \\ \hline \end{array}$	$\begin{array}{r} 715 \\ \times 348 \\ \hline \end{array}$	$\begin{array}{r} 908 \\ \times 307 \\ \hline \end{array}$	$\begin{array}{r} 347 \\ \times 603 \\ \hline \end{array}$
$\begin{array}{r} 542 \\ \times 596 \\ \hline \end{array}$	$\begin{array}{r} 739 \\ \times 478 \\ \hline \end{array}$	$\begin{array}{r} 683 \\ \times 501 \\ \hline \end{array}$	$\begin{array}{r} 852 \\ \times 380 \\ \hline \end{array}$	$\begin{array}{r} 967 \\ \times 384 \\ \hline \end{array}$

10.2

Isku-dhufashada 2 tiro oo min 3-god ah.

Raadi taranka 186 X 425 iyo 484 X 963, adoo isticmaalaya habka guud.

186	484
X 425	X 963
930	1352
3720	29040
74400	435600
78050	465990

Guuri, taranka ku raadi habka guud

<u>482</u> × 300	<u>245</u> × 123	<u>623</u> × 213	<u>576</u> × 136	<u>357</u> × 160
<u>833</u> × 133	<u>622</u> × 321	<u>578</u> × 212	<u>683</u> × 501	<u>375</u> × 155
<u>967</u> × 121	<u>683</u> × 153	<u>824</u> × 112	<u>568</u> × 666	<u>725</u> × 648
<u>891</u> × 607	<u>368</u> × 573	<u>491</u> × 223	<u>656</u> 212	<u>756</u> 806
<u>574</u> × 314	<u>397</u> × 263	<u>925</u> × 634	823 × 615	<u>659</u> × 553

Iskudhufashada tirooyin 4X3 god ah oo tarantoodu ka badnayn 999,999.

Raadi taranka 3415 X 230 iyo 1342 X 203.

3415	1342
X 230	X 203
102450 = 30 X 3415	4026 = 3 X 1342
583000 = 200 X 3415	268400 = 200 X 1342
685450	272426

Guuri, kaddibna raadi taranka.

<u>652</u> × 240	<u>2062</u> × 380	<u>457</u> × 300	<u>257</u> × 201	<u>2900</u> × 350
<u>2453</u> × 300	<u>248</u> × 503	<u>2869</u> × 340	<u>306</u> × 413	<u>2438</u> × 104
<u>619</u> × 305	<u>5006</u> × 140	<u>869</u> × 440	<u>2345</u> × 300	<u>2206</u> × 407
<u>206</u> × 407	<u>4493</u> × 203	<u>5007</u> × 105	<u>593</u> × 403	<u>2307</u> × 206
<u>964</u> × 790	<u>1003</u> × 370	<u>4836</u> × 107	<u>851</u> × 360	<u>3534</u> × 103

MAS'ALOOYIN

1. Kaartoon ay ku jiraan 144 buug, ayaa buug kasta culayskiisu yahay 454g. Waa immisa culayska buugta oo dhammi?
2. Guri dhismihiisa ay ka shaqeeynayeen 450 shaqaale ah, ayaa midkiiba maalin kasta la siin jiray 360 Shilin. Immisa lacag ayaa maalin kasta la siin jiray shaqaalaha?
3. Berked ayaa lagu shubaa 350 barmiil (foosto) oo biyo ah, barmiilkiina waxa uu qaadaa 200 oo litir. Barkaddaasi immisa litir oo biyo ah ayaa lagu shupay?
4. Warshad qasacadaysa hilibka ayaa waxa ay maalin kasta soo saartaa 8750 qasacadood oo hilib ah. 365tii maalmood immisa qasacadood ayay soo saari kartaa?
- (5) Iskaashato beeraley ah ayaa iska iibisay 9760 kintaal oo galley ah, haddii kiintaalkiiba ay ku iibisay 795 shilin. Immisa lacag ayay iskaashatadu heshay?
6. Nin ganacsade ah ayaa waxa uu soo gatay (iibsadey) 4954 mitir oo dhar ah. Haddii mitirkiiba uu ku soo gatay 356 Shilin. Soo saar lacagta ka baxday ganacsadahaasi?

**Tusaale:**  $16 \div 5 = ?$

Weedha isu qaybinta ee  $16 \div 5 = ?$  waa  $16 = ? \times 5$ .

Waa maxay tirada marka lagu dhufto shan ku siinaysa 16?

Tusaha isku dhufashada kuma jirto. Hase yeeshee, waxa ku jirta  $3 \times 5 = 15, 16$  iyo 15 faraqoodu waa hal.

Mar haddii aynu ognahay in  $15 \div 5 = 3, 16 \div 5 = 3$  iyo 1 haraa ah.

Sababtoo ah  $16 = (3 \times 5) + 1$ , sida kale oo  $16 \div 5 = ?$  Loo samayn karaa waa

$$\begin{array}{r} 3 \\ 5 \overline{)16} \\ \underline{15} \\ 1 \end{array} \text{ --- Haraa}$$

Sidaas oo kale  $85 \div 3 = ?$ .

Waxaa looga shaqayn karaa

sidatan:

$$\begin{array}{r} 28 \\ 3 \overline{)85} \\ \underline{6} \\ 25 \\ \underline{24} \\ 1 \end{array} \text{ --- Haraa}$$

Raadi qaybta iyo haraaga

$6 \overline{)54}$	$4 \overline{)38}$	$4 \overline{)25}$	$3 \overline{)16}$	$3 \overline{)10}$
$6 \overline{)39}$	$2 \overline{)19}$	$5 \overline{)37}$	$5 \overline{)30}$	$6 \overline{)29}$
$3 \overline{)56}$	$8 \overline{)72}$	$3 \overline{)28}$	$2 \overline{)42}$	$9 \overline{)45}$
$3 \overline{)36}$	$8 \overline{)25}$	$3 \overline{)25}$	$2 \overline{)72}$	$3 \overline{)90}$



**Tusaale:**  $252 \div 4 = ?$

(Immisa afraad ayaa ku jirta 252)

Weedha isu qaybinta ee  $252 \div 4 = ?$  waa  $252 = ? \times 4$

Waxaana looga shaqayn karaa sida soo socota

$$\begin{array}{r}
 63 \leftarrow \\
 4 \overline{) 252} \\
 \underline{-240} \leftarrow 60 \times 4 \\
 12 \\
 \underline{-12} \leftarrow 3 \times 4 \\
 00 \leftarrow \text{Haraa}
 \end{array}$$

(252 waxa aynu ka goynaynaa afar — lixdanaad.)  
 (Haddana afar — saddexaad ayaan ka goynaynaa.)

Qaybtan waa 63; haraagana waa 0.

Markaa  $252 = 63 \times 4$ .

Raadi qaybta iyo haraaga.

$3 \overline{) 173}$	$6 \overline{) 196}$	$8 \overline{) 206}$	$3 \overline{) 154}$	$5 \overline{) 276}$	$4 \overline{) 242}$
$7 \overline{) 188}$	$4 \overline{) 196}$	$9 \overline{) 278}$	$4 \overline{) 342}$	$7 \overline{) 169}$	$8 \overline{) 209}$
$9 \overline{) 376}$	$3 \overline{) 289}$	$8 \overline{) 337}$	$6 \overline{) 199}$	$5 \overline{) 364}$	$2 \overline{) 136}$
$2 \overline{) 146}$	$9 \overline{) 693}$	$9 \overline{) 189}$	$7 \overline{) 434}$	$5 \overline{) 175}$	$6 \overline{) 472}$
$6 \overline{) 116}$	$5 \overline{) 317}$	$8 \overline{) 384}$	$3 \overline{) 285}$	$6 \overline{) 384}$	$4 \overline{) 237}$

Layliyada soo socda waxa ay kaa caawinayaan raadinta qaybta marka la samaynayo mas'alooyin isu qaybineed, sida  $4 \overline{) 128}$ .

Layliyo: \_\_\_\_\_

1. Lammaanayaasha soo socda mid kasta geli meesha bannaan ee uu ku habboon yahay.

10	20	30	40	50	60	70	80	90
20	30	40	50	60	70	80	90	100

b)  $\begin{array}{|c|} \hline 30 \\ \hline \end{array} \times 4 < 128$  t)  $\begin{array}{|c|} \hline \square \\ \hline \end{array} \times 5 < 490$  j)  $\begin{array}{|c|} \hline \square \\ \hline \end{array} \times 9 < 162$   
 $\begin{array}{|c|} \hline 40 \\ \hline \end{array} \times > 128$   $\begin{array}{|c|} \hline \square \\ \hline \end{array} \times 5 > 490$   $\begin{array}{|c|} \hline \square \\ \hline \end{array} \times 9 > 162$

x)  $\begin{array}{|c|} \hline \square \\ \hline \end{array} \times 9 < 666$  kh)  $\begin{array}{|c|} \hline \square \\ \hline \end{array} \times 4 < 92$  d)  $\begin{array}{|c|} \hline \square \\ \hline \end{array} \times 8 < 322$   
 $\begin{array}{|c|} \hline \square \\ \hline \end{array} \times 9 > 666$   $\begin{array}{|c|} \hline \square \\ \hline \end{array} \times 4 > 92$   $\begin{array}{|c|} \hline \square \\ \hline \end{array} \times 8 > 322$

r)  $\begin{array}{|c|} \hline \square \\ \hline \end{array} \times 7 < 588$  s)  $\begin{array}{|c|} \hline \square \\ \hline \end{array} \times 5 < 325$  sh)  $\begin{array}{|c|} \hline \square \\ \hline \end{array} \times 4 < 224$   
 $\begin{array}{|c|} \hline \square \\ \hline \end{array} \times 7 > 588$   $\begin{array}{|c|} \hline \square \\ \hline \end{array} \times 5 > 325$   $\begin{array}{|c|} \hline \square \\ \hline \end{array} \times 4 > 224$

2. Ku buuxi meesha bannaan dhufsanaha toban ee ugu weyn ee weedha ka dhigi kara run.

b)  $\begin{array}{|c|} \hline 30 \\ \hline \end{array} \times 4 < 128$  t)  $\begin{array}{|c|} \hline \square \\ \hline \end{array} \times 6 < 258$  j)  $\begin{array}{|c|} \hline \square \\ \hline \end{array} \times 9 < 387$

x)  $\begin{array}{|c|} \hline \square \\ \hline \end{array} \times 7 < 448$  kh)  $\begin{array}{|c|} \hline \square \\ \hline \end{array} \times 4 < 376$  d)  $\begin{array}{|c|} \hline \square \\ \hline \end{array} \times 3 < 252$

r)  $\begin{array}{|c|} \hline \square \\ \hline \end{array} \times 8 < 272$  s)  $\begin{array}{|c|} \hline \square \\ \hline \end{array} \times 9 < 747$  sh)  $\begin{array}{|c|} \hline \square \\ \hline \end{array} \times 6 < 510$

dh)  $\begin{array}{|c|} \hline \square \\ \hline \end{array} \times 7 < 546$  c)  $\begin{array}{|c|} \hline \square \\ \hline \end{array} \times 5 < 390$  g)  $\begin{array}{|c|} \hline \square \\ \hline \end{array} \times 3 < 96$

f)  $\begin{array}{|c|} \hline \square \\ \hline \end{array} \times 4 < 92$  q)  $\begin{array}{|c|} \hline \square \\ \hline \end{array} \times 8 < 784$  k)  $\begin{array}{|c|} \hline \square \\ \hline \end{array} \times 2 < 86$ .

## 11.2 Barashada sida loo raadiyo qaybta

Layliyada soo socda waxa ay kaa caawinayaan raadinta qaybta marka la samaynayo mas'alooyin isu qaybineed.

Layliyo: \_\_\_\_\_

1. Ku buuxi meelaha bannaan tirada ugu weyn ee weedha ka dhigi karta run.

b)  $\square \times 40 < 243$  t)  $\square \times 20 < 166$   
 j)  $\square \times 30 < 112$  x)  $\square \times 50 < 462$   
 kh)  $\square \times 70 < 331$  d)  $\square \times 80 < 500$   
 r)  $\square \times 60 < 451$  s)  $\square \times 90 < 455$   
 sh)  $\square \times 10 < 85$  dh)  $\square \times 20 < 193$

2. Ku buuxi meelaha bannaan dhufsanayaasha ugu weyn ee boqol ee weedh kasta ka dhigi kara run.

b)  $\square \times 2 < 1150$  t)  $\square \times 3 < 2500$   
 j)  $\square \times 5 < 2700$  x)  $\square \times 4 < 2700$   
 kh)  $\square \times 7 < 6100$  d)  $\square \times 8 < 3100$   
 r)  $\square \times 9 < 5800$  s)  $\square \times 7 < 2800$   
 sh)  $\square \times 6 < 5700$  dh)  $\square \times 9 < 6500$

3. Raadi qiimaha n ee weedh kasta.

b)  $91 = (n \times 10) + 1$  t)  $375 = (n \times 100) + 75$   
 j)  $846 = (n \times 100) + 46$  x)  $735 = (n \times 100) + 35$   
 kh)  $1321 = (n \times 100) + 21$  d)  $2582 = (n \times 100) + 82$   
 r)  $3823 = (n \times 100) + 23$  s)  $4327 = (n \times 100) + 27$   
 sh)  $8364 = (n \times 100) + 64$  dh)  $9176 = (n \times 100) + 76$

## U qaybinta tiro 4-god ah, tiro 1-god ah.

## 11.3

Tusaale: Raadi qaybta  $829 \div 3$  iyo  $2356 \div 6$ .

$$\begin{array}{r} 200 + 70 + 6 = 276 \\ 3 \overline{) 829} \\ \underline{-600} \quad \leftarrow 3 \times 200 \\ 229 \\ \underline{-210} \quad \leftarrow 3 \times 70 \\ 19 \\ \underline{-18} \quad \leftarrow 3 \times 6 \\ 1 \text{ haraa} \end{array}$$

$$829 = (276 \times 3) + 1$$

$$\begin{array}{r} 300 + 90 + 2 = 392 \\ 6 \overline{) 2356} \\ \underline{-1800} \quad \leftarrow 6 \times 300 \\ 556 \\ \underline{-540} \quad \leftarrow 6 \times 90 \\ 16 \\ \underline{-12} \quad \leftarrow 6 \times 2 \\ 4 \text{ haraa} \end{array}$$

$$2356 = (392 \times 6) + 4$$

la qaybshe = (qayb  $\times$  qaybshe) + haraa

Tusaalooyinka sare waxa ay muujinayaan sida loo helo qaybta. U fiirso tallaabo kasta marka la qaadayo waxa la raadinayaa dhufsanaha ugu weyn ee qaybs-haha ee laga goyn karo la qaybsaha.

Raadi qaybta iyo haraaga.

$4 \overline{) 1586}$	$2 \overline{) 339}$	$6 \overline{) 2438}$	$8 \overline{) 5304}$	$4 \overline{) 2789}$
$5 \overline{) 4865}$	$9 \overline{) 8460}$	$3 \overline{) 2359}$	$4 \overline{) 3346}$	$3 \overline{) 469}$
$8 \overline{) 3659}$	$6 \overline{) 3542}$	$7 \overline{) 4375}$	$9 \overline{) 6308}$	$5 \overline{) 3964}$
$7 \overline{) 5048}$	$4 \overline{) 2746}$	$3 \overline{) 674}$	$8 \overline{) 7534}$	$9 \overline{) 5837}$

11.4 U qaybinta tiro 4-god ah, tiro 1-god ah

Tallaabooyinka soo socdaa waxa ay muujinayaan jidka ugu fudud ee lagu raadiyo qaybta iyo haraaga.

Boqolaadyo =  $43 \div 6$   
 Qayb = 7  
 Haraa = 1

$$\begin{array}{r} 7 \\ 6 \overline{) 4356} \end{array}$$

Tobnaadyo =  $15 \div 6$   
 Qayb = 2  
 Haraa = 3

$$\begin{array}{r} 2 \\ 6 \overline{) 4356} \end{array}$$

Koowaadyo =  $36 \div 6$   
 Qayb = 6  
 Haraa = 0

$$\begin{array}{r} 6 \\ 6 \overline{) 4356} \end{array}$$

$$\begin{array}{r} 726 \\ 6 \overline{) 4356} \\ \underline{-42} \phantom{00} \\ 15 \phantom{00} \\ \underline{-12} \phantom{00} \\ 36 \phantom{00} \\ \underline{-36} \phantom{00} \\ 0 \text{ haraa} \end{array}$$

Raadi qaybta iyo haraaga

- |                                     |   |
|-------------------------------------|---|
| 1. 2732 u qaybi 9                   | 2. 4368 Sh. $\div$ 7 qof.                   |
| 3. 1945 $\div$ 8                    | 4. $6 \overline{) 1782}$                    |
| 5. Raadi qaybta marka 3356 $\div$ 2 | 6. $\begin{array}{r} 8563 \\ 5 \end{array}$ |
| 7. 7283 u qaybi 4                   | 8. 1088 si isle'eg ugu qaybi 8 qof.         |
| 9. Immisa 3aad ayaa ku jira 6210.   | 10. 9452 $\div$ 7                           |

U qaybinta tiro 2-god ah, tiro 2-god ah

11.5

Sida qaalibka ah, marka aan laba tiro isuqaybinayno horta waxa aan doorannaa qayb weyn. Ka dib, waxa aan ku daynaa qayb ka yar ilaa aan gaarno qaybta saxa ah.

Tusaalooyin :  $29 \div 16$  iyo  $65 \div 23$

(b)  $16 \overline{) 29} \rightarrow 16 \overline{) 29} \rightarrow 16 \overline{) 29}$

$$\begin{array}{r} 3 \\ 16 \overline{) 29} \\ \underline{-48} \text{ ka weyn} \end{array} \rightarrow \begin{array}{r} 2 \\ 16 \overline{) 29} \\ \underline{-32} \text{ ka weyn} \end{array} \rightarrow \begin{array}{r} 1 \\ 16 \overline{) 29} \\ \underline{-16} \text{ sax} \\ 13 \end{array}$$

(t)  $23 \overline{) 65} \rightarrow 23 \overline{) 65} \rightarrow 23 \overline{) 65}$

$$\begin{array}{r} 4 \\ 23 \overline{) 65} \\ \underline{-92} \text{ ka weyn} \end{array} \rightarrow \begin{array}{r} 3 \\ 23 \overline{) 65} \\ \underline{-69} \text{ ka weyn} \end{array} \rightarrow \begin{array}{r} 2 \\ 23 \overline{) 65} \\ \underline{-46} \text{ sax} \\ 19 \end{array}$$

Eeg sida loo furfurayo mas'aladan  
 45 buug ayaa si isle'eg loogu qaybiyey 13 arday. Immisa ayaa uu helayaa arday kasta?  
 Taas oo ah, 45 loo qaybiyey 13.

$$\begin{array}{r} 3 \\ 13 \overline{) 45} \\ \underline{-39} \\ 6 \end{array} \rightarrow \begin{array}{l} 45 \text{ buug ayaa si isle'eg loo qaybinayaa.} \\ \text{Arday kastaa waxa uu helayaa 3 buug} \\ (13 \times 3) = 39 \\ 6 \text{ ayaa soo hartay.} \end{array}$$

Sidaasi daraadeed, arday kastaa waxa uu helayaa 3 buug.

Raadi qaybta iyo haraaga.

$14 \overline{) 30}$	$13 \overline{) 36}$	$21 \overline{) 87}$	$15 \overline{) 68}$
$18 \overline{) 40}$	$30 \overline{) 78}$	$27 \overline{) 95}$	$38 \overline{) 77}$

**Tusaale:** Raadi qaybta iyo haraaga marka  $440 \div 60$

- Tirada 440 waxa ay ka kooban tahay 44 tobnaad
- Tirada 60 waxa ay ka kooban tahay 6 tobnaad
- Marka 6 toddobaad  $\times 7 = 42$  tobnaad, sidaa awgeed,  $42 \text{ tobnaad} < 440$ .
- Sidaa oo kale 6 tobnaad  $\times 8 = 48$  tobnaad, Sidaa awgeed,  $48 \text{ tobnaad} > 440$ .

Haddaba,  $440 \div 60$ , waxa qaybta loo raadin karaa sidatan:

$$\begin{array}{r} 7 \\ 60 \overline{) 440} \\ \underline{-420} \phantom{0} \\ 020 \end{array} \quad \longleftarrow 7 \times 60$$

Markaa  $440 \div 60 = 7$ , haraa 20.

**Tusaale:** Raadi qaybta iyo haraaga, marka  $305 \div 70 = ?$

$$\begin{array}{r} 4 \\ 70 \overline{) 305} \\ \underline{-280} \phantom{0} \\ 25 \end{array}$$

Maadaama  $\begin{cases} \nearrow 4 \times 70 < 305 \\ \searrow 5 \times 70 > 305 \end{cases}$

Waxa aan la qaybshaha ka goyn karnaa  $4 \times 70$  oo ah 280.

Haddaba qaybtu waa 4, haraaguna waa 25.

Raadi qaybta iyo haraaga.

$30 \overline{) 173}$	$50 \overline{) 258}$	$40 \overline{) 332}$	$90 \overline{) 735}$
$20 \overline{) 190}$	$80 \overline{) 652}$	$60 \overline{) 366}$	$70 \overline{) 509}$
$40 \overline{) 479}$	$50 \overline{) 435}$	$90 \overline{) 392}$	$10 \overline{) 410}$

Tusaalooyinka soo socda waxa ay kaa caawinayaan; sida ugu fudud ee loo heli karo qaybta iyo haraaga, marka tiro 3-god ah loo qaybinayo dhufsane toban.

(b)  $70 \overline{) 442}$

$$\begin{array}{r} 6 = 6 \\ \underline{-420} \phantom{0} \\ 22 \end{array} \quad \longleftarrow 6 \times 70$$

(t)  $40 \overline{) 617}$

$$\begin{array}{r} 10 + 5 = 15 \\ \underline{-400} \phantom{0} \\ 217 \\ \underline{-200} \phantom{0} \\ 17 \end{array} \quad \begin{array}{l} \longleftarrow 10 \times 4 \\ \longleftarrow 5 \times 40 \end{array}$$

$442 = (70 \times 6) + 22$

$617 = (40 \times 15) + 17$

Raadi qaybta iyo haraaga adigoo raacaya habka tusaalooyinka sare.

- |                  |                   |
|------------------|-------------------|
| 1. $32 \div 20$  | 6. $566 \div 80$  |
| 2. $220 \div 70$ | 7. $463 \div 60$  |
| 3. $297 \div 40$ | 8. $278 \div 30$  |
| 4. $548 \div 70$ | 9. $237 \div 40$  |
| 5. $650 \div 80$ | 10. $415 \div 50$ |

$60 \overline{) 361}$	$40 \overline{) 400}$	$20 \overline{) 390}$	$70 \overline{) 578}$	$90 \overline{) 645}$
$40 \overline{) 327}$	$20 \overline{) 190}$	$80 \overline{) 640}$	$60 \overline{) 488}$	$50 \overline{) 415}$
$80 \overline{) 650}$	$90 \overline{) 645}$	$50 \overline{) 437}$	$70 \overline{) 472}$	$30 \overline{) 273}$

**Tusaale:** Soo saar qaybta iyo haraaga,  $138 \div 29$ .

Tirada 138 waxay koobaysaa 13 tobnaad.

Tirada 29 waxay u dhowdahay 3 tobnaad

Marka 3 tobnaad  $\times 4 = 12$  tobnaad,

12 tobnaad  $< 13$  tobnaad.

Sidoo kale 3 tobnaad  $\times 5 = 15$  tobnaad

15 tobnaad  $> 13$  tobnaad.

Tirada ugu weyn ee weedha  $29 \times \square < 138$  ay run ku noqon karto

waa 4.

Waxaana qaybta loo raadiyaa sida soo socota:

$$\begin{array}{r} 4 \leftarrow \\ 29 \overline{) 138} \\ - 116 \leftarrow 4 \times 29 \\ \hline 22 \end{array}$$

Haddaba,  $138 \div 29 = 4$ , haraa 22.

Raadi qaybta iyo haraaga

$41 \overline{) 175}$	$48 \overline{) 208}$	$29 \overline{) 156}$	$59 \overline{) 192}$	$43 \overline{) 387}$
$61 \overline{) 549}$	$46 \overline{) 190}$	$54 \overline{) 317}$	$48 \overline{) 463}$	$61 \overline{) 271}$
$63 \overline{) 520}$	$52 \overline{) 413}$	$89 \overline{) 675}$	$58 \overline{) 456}$	$68 \overline{) 568}$
$81 \overline{) 707}$	$79 \overline{) 693}$	$52 \overline{) 156}$	$78 \overline{) 643}$	$83 \overline{) 498}$

Tusaalooyinka soo socda waxa ay kaa caawinayaan; sida ugu fudud ee loo soo saari karo qaybta iyo haraaga, marka tiro 4-god ah loo qaybinayo dhufsane toban.

$$(b) \quad 20 \overline{) 1808} \begin{array}{l} 90 = 90 \\ - 1800 \leftarrow 20 \times 90 \\ \hline 8 \end{array}$$

$$(t) \quad 50 \overline{) 3885} \begin{array}{l} 70 + 7 = 77 \\ - 3500 \leftarrow 70 \times 50 \\ \hline 385 \\ - 350 \leftarrow 7 \times 50 \\ \hline 35 \end{array}$$

$$1808 = (20 \times 90) + 8$$

$$3885 = (50 \times 77) + 35$$

Raadi qaybta iyo haraaga adigoo raacaya habka tusaalooyinka sare.

$20 \overline{) 1846}$	$30 \overline{) 2575}$	$50 \overline{) 3360}$	$40 \overline{) 2014}$
$60 \overline{) 1459}$	$70 \overline{) 2975}$	$90 \overline{) 3927}$	$80 \overline{) 3943}$
$30 \overline{) 2850}$	$90 \overline{) 2927}$	$60 \overline{) 5208}$	$20 \overline{) 1126}$
$40 \overline{) 2788}$	$70 \overline{) 6441}$	$80 \overline{) 8296}$	$20 \overline{) 1328}$
$90 \overline{) 6538}$	$70 \overline{) 5670}$	$80 \overline{) 2723}$	$40 \overline{) 3340}$

12.4 U qaybinta tiro 4-god ah, tio 2-god ah.

Tusaale: Soo saar qaybta iyo haraaga,  $1297 \div 37$ .

Tirada 1297 waxay koobaysaa 129 tobnaad.

Tirada 37 waxay u dhowdahay 4 tobnaad.

Marka 129 tobnaad loo qaybiyo 4 tobnaad

waxay la mid tahay iyadoo 129 loo qaybiyo tiraca 4. Marka 129 loo qaybiyo tirada 4 qaybtu waxay u dhowdahay 30, taas oo ah 3 tobnaad.

Haddaba marka  $1297 \div 37$ , qaybta iyo haraaga waxa aan ku helaynaa labada hab ee soo socda:

Habka gaaban

Habka guud

$$\begin{array}{r} 37 \overline{) 1297} \\ \underline{-1110} \phantom{0} \\ 187 \phantom{0} \\ \underline{-185} \\ 2 \end{array}$$

←  $30 \times 37$   
←  $5 \times 37$

$$\begin{array}{r} 37 \overline{) 1297} \\ \underline{-111} \phantom{00} \\ 187 \phantom{0} \\ \underline{-185} \\ 2 \end{array}$$

Markaa  $1297 \div 37 = 35$ , haraa 2

Raadi qaybta iyo haraaga

$37 \overline{) 1739}$	$26 \overline{) 2867}$	$17 \overline{) 5916}$	$18 \overline{) 2754}$	$23 \overline{) 1748}$
$35 \overline{) 1505}$	$24 \overline{) 6973}$	$25 \overline{) 5675}$	$74 \overline{) 4144}$	$88 \overline{) 2024}$
$66 \overline{) 2936}$	$53 \overline{) 2491}$	$75 \overline{) 4267}$	$63 \overline{) 4557}$	$45 \overline{) 3120}$
$95 \overline{) 9376}$	$26 \overline{) 7389}$	$39 \overline{) 9165}$	$59 \overline{) 1357}$	$91 \overline{) 4509}$

U qaybinta tirooyin ilaa 4-god ah, tirooyin ilaa 2-god ah.

12.5

Raadi qaybta iyo haraaga layliyada iyo mas'alooyinka soo socda.

1. (b)  $3 \overline{) 90}$  (t)  $4 \overline{) 86}$  (j)  $95 \overline{) 9376}$

(x)  $6 \overline{) 5239}$  (kh)  $47 \overline{) 2773}$  (d)  $23 \overline{) 69}$

(r)  $33 \overline{) 75}$  (s)  $8 \overline{) 663}$  (sh)  $8 \overline{) 8664}$

(dh)  $7 \overline{) 430}$  (c)  $54 \overline{) 2430}$  (g)  $48 \overline{) 376}$

(f)  $7 \overline{) 246}$  (q)  $48 \overline{) 3650}$  (k)  $38 \overline{) 3124}$

- Baabuur ayaa socday 1626 kiilom'itir muddo 28 saacadood ah. Immisuu socday saacaddiiba?
- Immisa toddobaad ayaa ku jira 145 maalmood?
- Axmed oo ku jira guri ijaar ah ayaa sannadkiiba waxa uu bixiyaa 1800 shilin. Immisa shilin ayuu bixiyaa bil kasta?
- Arday ayaa kaydsaday 600 shilin muddo 30 maalmood ah. Immisa shilin ayuu dhigtay maalintiiba?
- Haddii 672 shilin si isle'eg loogu qaybiyey 32 qof. Immisa shilin ayaa qof kasta uu helayaa.
- Nin beeraley ah ayaa waxa u soo go'day 2438 kg. oo yaanyo ah. Haddii uu u qaybiyey 6 qof oo ganacsato ah. Immisa kg. oo yaanyo ah ayuu helayaa ganacsade kasta? Immisaana soo haraysa?

Mas'alooyin

1. Immisa saacadood ayaa ku jira 2160 daqiiqadood?
2. Dugsi ay dhigtaan 80 arday ayaa si isle'eg loogu qaybiyey 720 buug. Immisa buug ayuu helayaa arday kasta?
3. Immisa maalmood ayaa ku jira 888 saacadood?
4. 15 qof ayaa la wadaajiyey 9645 shilin. Haddii si isle'eg ay u qaybsadaan. Immisa ayuu helayaa qof kasta?
5. Warshad ay ka shaqeeyaan 40 qof oo isugu jira rag iyo haween, ayaa waxa abaalgud ahaan loo siiyey lacag dhan 3040 sh. Immisa shilin ayuu helayaa qof kasta?
6. Shaneemo ay geli karaan 896 qof, ayaa saf kasta waxa uu ka kooban yahay 28 kursi. Immisa saf oo kuraas ah ayey leedahay?
7. Beer ay wada lahaayeen 24 qof, ayaa waxa uga soo go'day 4392 kiintaal oo galley ah. Immisa kiintaal oo galley ah ayuu qof kasta helayaa?
8. 22 arday ayaa waxa loo qaybiyey 1386 qalin. Haddii si isle'eg loo qaybiyey. Immisa qalin ayuu helayaa arday kasta?

Tirooyinka wax lagu tirsado sida 1, 2, 3, 4, ... ayaa waxaa lagu magacaabaa tirooyinka tirsiiimo.

Tirooyinka wax lagu tirsado oo ay la socoto eber; sida 0, 1, 2, 3, 4, 5, 6, 7, ... ayaa waxa lagu magacaabaa tirooyinka idil.

Tiro haddii ay haraa la'aan 2 u qaybsami karto waxaa loo yaqaan "tiro dhaban ah".

Ogow: In tirooyinka ku dhammaada 0, 2, 4, 6, 8, ay yihiin tirooyin dhaban ah.

Haraa la'aan tirada aan u qaybsami karin 2 waxaa loo yaqaan tiro kisi ah.

Ogow: In tirooyinka ku dhammaada 1, 3, 5, 7, 9, ay yihiin tirooyin kisi ah.

Layli:

1. Sheeg tirooyinkan kuwa kisiga ah, iyo kuwa dhabanka ah.

7, 51, 75, 96, 102, 24, 6, 213, 421, 2732, 78, 15, 95, 1024, 463, 128, 62, 9781, 8000, 6569.

2. Qor tirooyinka dhabanka ah ee u dhexeeya 10 ilaa 30.

3. Qor tirooyinka kisiga ah ee u dhexeeya 21 ilaa 41.

4. Raadi wadarta tirooyinka kisiga ah iyo wadarta tirooyinka dhabanka ah ee ka yar 10.

5. Sheeg waxa ay ku kala duwan yihiin tirooyinka dhabanka ah iyo kuwa kisiga ah.

13.2 Barashada tiro kisi ah, iyo tiro dhaban ah.

Dhammaystir tuseyaasha soo socda ka dibna ka jawaab su'aasha la socota mid walba.

+	2	16	12	8	10	122
14	16					
18						
6			18			
20						
4						
100						

Wadarta laba tiro oo dhaban ah, ma tiro dhaban baa mise waa tiro kisi ah?

+	11	5	23	9	17	113
13	24					
29						
7						
15			38			
21						
121						

Wadarta laba tiro oo kisi ah, ma tiro kisi baa mise waa tiro dhaban ah?

+	18	26	144	16	20	202
19						
131		157				
5						
17					37	
111						
35						

Wadarta tiro kisi ah iyo tiro dhaban ah, ma tiro kisi baa mise waa tiro dhaban ah?

Barashada dhufsanayaasha tirooyinka idil.

13.3

Dhufsanaha tiro idil, waa taran kasta oo ka dhasha tiradaas iyo tiro idil.

$$4 \times 3 = 12$$

12 waa taranka 4 iyo 3.

12 waa dhufsanaha 4; isla markaa 12 waa dhufsanaha 3. Sidaas dar-teed, 12 waa dhufsanaha 4 iyo 3-ba.

Dhammaan tirooyinkani waa dhufsanayaasha 4

$$\{0, 4, 8, 12, 16, 20, 24, \dots\}$$

Ogow: In tiro kasta oo ka mid ah tirooyinkan sare ay 4 dheer tahay tirada ka horreysa.

Layli: \_\_\_\_\_

1. Qor dhufsanayaasha dhiman ee 3.

$$\{0, 3, 6, 9, 12, \text{---}, \text{---}, \text{---}, \text{---}, \text{---}, 30\}$$

2. Magacaw shanta tiro ee ugu horreeya ee dhufsanayaal u ah.

(b) 2 (t) 5 (d) 6 (x) 7 (kh) 10.

3. (b) 18 waa dhufsane 9; magacaw labada dhufsane ee ku xiga.

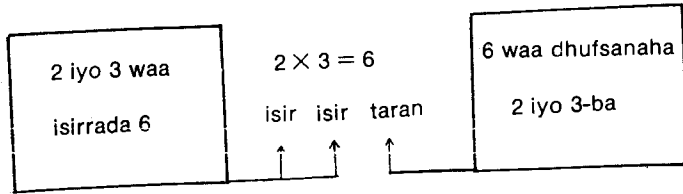
(t) 24 waa dhufsane 8; magacaw labada dhufsane ee ku xiga.

(j) 20 waa dhufsane 5; magacaw dhufsanaha ku xiga.

(x) Magacaw dhufsanayaasha 4 ee u dhexeeya 25 iyo 40.



### 13.4 Barashada Isirrada.



$2 \times 3 = 6$  waxa aynu ka soo saari karnaa weeraha hoos ku qoran:

2 waa isirka 6.

3 waa isirka 6.

6 waa taranka 2 iyo 3.

6 waa dhufsanaha 2.

6 waa dhufsanaha 3.

Haddaba, haddii taranka laba tiro oo idil ay tahay 6, labada tiro waxa lagu magacaabaa isirrada 6. Marka aynu leenahay 6 waataranka 2 iyo 3 ama dhufsanaha 2 ama 3 waxa aynu u jeednaa 6 loo qaybiyey 2 ama 3, haraagu waa 0.

Layli: \_\_\_\_\_

1. Meelaha bannaan ku buuxi tirada ka maqan.

(b)  $8 \div 2 = 4$  haraa 0, haddaba tirada 2 waa u isir tirada 8.

(t)  $18 \div 3 = 6$  haraa \_\_\_\_\_, haddaba tirada \_\_\_\_\_ waa u isir tirada \_\_\_\_\_

(j)  $10 \div 3 = 3$  haraa \_\_\_\_\_, haddaba tirada \_\_\_\_\_ ma aha isirka \_\_\_\_\_.

(x)  $45 \div 5 = 9$  haraa \_\_\_\_\_, haddaba tirada \_\_\_\_\_ waa u isir tirada \_\_\_\_\_

(kh) 4 waa isirka 20 sababtoo ah  $4 \times 5 =$  \_\_\_\_\_

(d) 2 waa isirka 18 sababtoo ah  $2 \times 9 =$  \_\_\_\_\_

(r) 3 waa isirka 15 sababtoo ah  $3 \times 5 =$  \_\_\_\_\_

(s) \_\_\_\_\_ iyo \_\_\_\_\_ waa isirrada 21 sababtoo ah  $3 \times 7 = 21$

### Tiro mutuxan

### 13.5

Haddii tiro isiradu ay yihiin hal iyo lafteeda, tirada waxa la yiraahdaa tiro mutuxan.

Sida tirooyinka: 2, 3, 5, 7, 11, 13, 17, 19,...

**Tusaale:**

31 iyo 21 ma yihiin tirooyin mutuxan?

Isirrada 31 waa 1 iyo 31. Kol haddii isirrada 31 ay yihiin hal iyo tirada lafteeda, markaas 31 waa tiro mutuxan.

Isirrada 21 waa 1, 3, 7, iyo 21. Mar haddii isirrada 21 ay ka badan yihiin hal iyo iyada lafteeda, markaas 21 ma aha tiro mutuxan, ee waa tiro farcan.

Sidaasi daraadeed, tiro farcanna waa tirada isiradeedu ka badan yihiin hal iyo iyada lafteeda, sida tirooyinka 4, 6, 8, 9, 10, 12, 15, ...

Ka jawaab su'aalaha soo socda, isla markaana meelaha bannaan ku buuxi ereyga ku habboon.

- 33 ma tahay tiro mutuxan? Waayo?
- 37 maxaa ay u noqotay tiro mutuxan?
- 35 maxaa ay u noqotay tiro farcan?
- Qor tirooyinka mutuxan ee u dhexeeya 11 ilaa 33.
- Isirrada tiro kasta oo mutuxan waa \_\_\_\_\_ iyo \_\_\_\_\_.
- Tiro kasta oo mutuxani waxa ay leedahay \_\_\_\_\_ isir.
- Tirada \_\_\_\_\_ waa u isir tiro kasta.
- Tirooyinka soo socda sheeg kuwa ah tiro mutuxan iyo kuwa ah tiro farcan.

41, 34, 39, 51, 71, 45, 103, 67, 14, 8.

## 14.4 Isir weynaha ay wadaagaan tirooyin

Marka la soo saarayo isir-weynaha ay wadaagaan (iwm) laba tiro waxa la raadiyaa tirooyinka mutuxan ee labaduba u qaybsami karaan, iyada oo loogu tijaabinayo sida tirooyinka mutuxani u kala yar yihiin (waxa dhici karta in hal tiro oo mutuxan ay dhawr jeer wada qaybiso labada tiro). Ka dibna tirooyinkaas mutuxan ayaa laysku dhuftaa.

### Tusaale:

Soo saar IWW 126 iyo 441.

### Furfuris:

3		126	,	441
3		42	,	147
7		14	,	49
		2	,	7

Markaa IWW waa  $3 \times 3 \times 7$  oo ah 63.

### Layli \_\_\_\_\_

1. Raadi tirooyinka u qaybsami kara 2, 3, ama 5:
  - b) 69    (t) 273    (j) 70    (x) 135.
2. Soo saar IWW tirooyinkan lammaan.
  - b) 18 ; 24    (t) 20 ; 27    (j) 12 ; 60
3. Raadi IWW 36,42, iyo 54.

## Isirro mutuxan.

14.1

### Tusaale:

Soo saar isirrada mutuxan ee 24?

### Furfuris:

24 isirrada ay leedahay waxa ay yihiin:

$$24 = 1 \times 24 \qquad 24 = 3 \times 8$$

$$24 = 2 \times 12 \qquad 24 = 4 \times 6$$

Si kale haddii aynu u qorno, siina kala bixinno waxa aynu heleynaa:

$$24 \quad \text{ama} \quad 24 \quad \text{ama} \quad 24$$

$$2 \times 12 \qquad 3 \times 8 \qquad 4 \times 6$$

$$2 \times 2 \times 6 \qquad 3 \times 2 \times 4 \qquad 2 \times 2 \times 2 \times 3$$

$$2 \times 2 \times 2 \times 3 \qquad 3 \times 2 \times 2 \times 2$$

Hadda waxa aynu aragnaa in isirradii 24 ay gaareen heer aanay qaybsami karin. Marka isirradu aanay dib u qaybsami karin ayaa la yiraa isirro mutuxan, sababtoo ah in aan isirna laftiisa iyo 1 mooyaane aanu wax kale u qaybsami karin.

Si kasta oo loo doono isirrada mutuxan ee 24, hubaashu waxa ay tahay in  $24 = 2 \times 2 \times 2 \times 3$ . Taasi waxa ay na tusaysaa in isirka mutuxan uu ku dambeynaayo tiro mutuxan. Kala hormarinta iskud-hufashada awgeed qiime ma laha kala hormarinta isirrada mutuxani. Waa isku mid  $2 \times 2 \times 2 \times 3$  iyo  $3 \times 2 \times 2 \times 2$  iyo  $2 \times 3 \times 2 \times 2$  iyo  $2 \times 2 \times 3 \times 2$ .

## 14.2 Isirro mutuxan.

Dhawr siyood oo kala duwan ayaa loo raadin karaa isirrada mutuxan ee tiro.

**Tusaale 1:**

Raadi isirrada mutuxan ee 56.

$$\begin{aligned} 56 &= 2 \times 28 \\ &= 2 \times 2 \times 14 \\ &= 2 \times 2 \times 2 \times 7 \\ 56 &= 2 \times 2 \times 2 \times 7 \end{aligned}$$

**Tusaale 2:**

Raadi isirrada mutuxan ee 1260.

2	1260
2	630
3	315
3	105
5	35
7	7
1	

$$1260 = 2 \times 2 \times 3 \times 3 \times 5 \times 7$$

**Layli** \_\_\_\_\_

1. Raadi isirrada mutuxan ee tirooyinka hoos ku yaal.  
(b) 42 (t) 12 (j) 42 (x) 50 (kh) 90 (d) 72.
2. Soo saar isirrada mutuxan ee 30 iyo 42 ay wadaagaan.
3. Sheeg labada tiro ee mutuxan ee wadartoodu tahay 10, tarankooduna yahay 21
4. Taraq u dhaxooya laba tiro oo mutuxan waa 2, wadartooduna waa 8. Qor labada tiro.
5. Qor isirrada mutuxan ee ay wadaagaan 18 iyo 26.
6. Raadi isirrada mutuxan ee 144?

## Isir weynaha ay wadaagaan tirooyin

## 14.3

Tiro farcan oo waliba waxa ay leedahay isirro mutuxan oo u gaar ah. Haddii aynu haysanno laba tiro, waxa aynu soo saari karraa isirrada ay wadaagaan iyo isir-weynaha ay wadaagaan labada tiro.

Isir-weynaha ay wadaagaan labada tiro waxa weeye, tirada ugu weyn ee labada tiroba ay u qaybsamaan haraa la'aan.

Aan baranno labadan hab ee soo socda si aan u raadinno isir-weynaha ay wadaagaan (iwm) 70 iyo 105.

**Habka 1aad**

Isirrada 70 waa \_\_\_\_\_  $\rightarrow$  1, 2, 5, 7, 10, 14, 35, 70.

Isirrada 105 waa \_\_\_\_\_  $\rightarrow$  1, 3, 5, 7, 15, 21, 35, 105.

Isirrada ay wadaagaan waa \_\_\_\_\_  $\rightarrow$  5, 7, 35.

Isir-weynaha ay wadaagaan waa \_\_\_\_\_  $\rightarrow$  35.

**Habka 2aad**

Isirrada mutuxan ee 70 waa \_\_\_\_\_  $\rightarrow$  2 X 5 X 7

Isirrada mutuxan ee 105 waa \_\_\_\_\_  $\rightarrow$  3 X 5 X 7

Isirka ugu weyn ee labadan taran ay wadaagaan waa \_\_\_\_\_  $\rightarrow$  35.

**Layli:** \_\_\_\_\_

1. Qor isirrada 12.
2. Qor isirrada 30.
3. Qor isirrada ay wadaagaan 12 iyo 30.
4. Qor isir-weynaha ay wadaagaan 12 iyo 30.

Marka la soo saarayo isir-weynaha ay wadaagaan (iwm) laba tiro waxa la raadiyaa tirooyinka mutuxan ee labaduba u qaybsami karaan, iyada oo loogu tijaabinayo sida tirooyinka mutuxani u kala yar yihiin (waxa dhici karta in hai tiro oo mutuxan ay dhawr jeer wada qaybiso labada tiro). Ka dibna tirooyinkaas mutuxan ayaa laysku dhufaa.

**Tusaale:**

Soo saar IWW 126 iyo 441.

**Furfuris:**

3	126 , 441
3	42 , 147
7	14 , 49
	2 , 7.

Markaa IWW waa  $3 \times 3 \times 7$  oo ah 63.

**Layli**

1. Raadi tirooyinka u qaybsami kara 2, 3, ama 5:
  - b) 69    (t) 273    (j) 70    (x) 135.
2. Soo saar IWW tirooyinkan lammaan.
  - b) 18 ; 24    (t) 20 ; 27    (j) 12 ; 60
3. Raadi IWW 36,42, iyo 54.

**Layli:**

1. Soo saar dhammaan isirrada mutuxan ee tirooyinka hoos ku yaal:
  - b) 81 (t) 27 (j) 72 (x) 154 (kh) 100.
2. Ka jawaab su'aalaha hoos ku qoran:
  - (b) Qor isirrada ay wadaagaan 12 iyo 20?
  - t) Waa maxay I.W.W. 12 iyo 20?
  - j) Sheeg isirrada ay wadaagaan 18 iyo 42?
  - x) Qor I.W.W. 18 iyo 42?
  - kh) Qor isirrada ay wadaagaan 12,18 iyo 42?
3. Soo saar IWW lammaanayaasha hoos ku yaal
 

(b) 80;84	(t) 168;714
(j) 372;390	(x) 340;360
(kh) 663;1105	(d) 144;96
(r) 35;105	(s) 90;210
(sh) 36;54	(dh) 165;390.
4. Raadi I.W.W. tirooyinka hoos ku yaal:
 

(b) 4;6;9	(t) 24;36;54
(j) 6;15;21	(x) 18;27;45
(kh) 12;25;30	(d) 15;9;27.

## 14.6 Dhufsane yaraha ay wadaagaan tirooyin

Dhufsane-yaraha ay wadaagaan (Dh.y.w.) laba ama dhawr tiro waa dhufsanaha ugu yar (ee aan ahayn eber) ee ay wadaagaan tirooyinkaasi.

Waxaan soo qaadanaynaa dhawr dariiqo oo lagu raadiyo Dh.y.w. laba ama dhawr tiro.

**Habka 1aad** Raadi dhufsane-yaraha ay wadaagaan 6 iyo 8.

— Dhufsanayaasha 6 waa  $\rightarrow$  0,6,12,18,24,30,36,42,48,...

— Dhufsanayaasha 8 waa  $\rightarrow$  0,8,16,24,32,40,48,...

— Dhufsanayaasha ay wadaagaan 6 iyo 8 waa  $\rightarrow$  0, 24, 48,...

— Dhufsaneyaraha ay wadaagaan waa  $\rightarrow$  24

### Layli

- (b) Qor dhufsanayaasha 6 (ilaa 60)  
(t) Qor dhufsanayaasha 4 (ilaa 60)  
(j) Qor dhufsanayaasha ay wadaagaan 6 iyo 4 (ilaa 60)  
(x) Sheeg dhufsane-yaraha ay wadaagaan 6 iyo 4.
- (b) Qor dhufsanayaasha 5 (ilaa 30)  
(t) Qor dhufsanayaasha 2 (ilaa 30)  
(j) Qor dhufsanayaasha ay wadaagaan 5 iyo 2 (ilaa 30)  
(x) Sheeg Dh.y.w. 5 iyo 2.  
(kh) Sheeg Dh.y.w. 6 iyo 10.

## Dhufsane yaraha ay wadaagaan

15.1

### Habka 2aad

Raadi dhufsane yaraha ay wadaagaan 9 iyo 12.

— Soo qaado labada tiro ta-weyn: 12

— Raadi dhufsanaha ugu yar ee 12, oo ay 9 u tahay isir.

12; 9 isir uma aha 12.

24; 9 isir uma aha 24.

36; 9 isir bay u tahay 36.

— 36 waa dhufsane yaraha ay wadaagaan 9 iyo 12.

### Layli

- (b) Qor dhufsanayaasha 12 (ilaa 72).  
(t) Raadi dhufsanaha ugu yar ee 12 oo ay 8 u tahay isir.  
(j) Sheeg Dh.y.w. 8 iyo 12.
- (b) Adiga oo isticmaalaya habka sare ku yaal, raadi Dh.y.w. labadii tiroba.  
(b) 3,4                      (t) 12;16                      (j) 10;8  
(x) 7;14                      (kh) 9;15                      (d) 8;20  
(r) 6;9                      (s) 10;15.                      (sh) 54;72  
(dh) 14;6.

**Habka 3-aad**

Marka la raadinayo Dh.y.w. laba tiro waa in tallaabooyinkan la raacaa:

1. Labada tiro mid kastaba gaar ahaan waa in loo raadiyaa isirra-deeda mutuxan.
2. Isirrada isku midka ah ee labada tiroba soo gala waxa aad qaada-aysaa kuwa tarankoodu kuugu badan yahay.
3. Isirrada mutuxan ee gaarka ah ee tiro walbana waad qaadanaysaa.
4. Kaddibna taranka isirrada u gaarka ah tiro walba iyo kuwa ay wadaagaan ee aad qaadatay ayaa ah Dh.y.w.

**Tusaale: 1** Raadi Dh.y.w. 18 iyo 24.

**Furfuris:** Raadi isirrada mutuxan ee 18 iyo 24.

$$24 = 2 \times 2 \times 2 \times 3$$

$$18 = 2 \times 3 \times 3$$

Isirrada ay wadaagaan, isirka 2 mar keliya ayaa uu soo galay tirada 18, hase yeeshee, saddex jeer ayaa uu soo galay tirada 24. Waxa waajib ah in isirka 2 saddex jeer laga helo Dh.y.w. Sidaas oo kale isirka 3, laba jeer baa laga helayaa tirada 18. Iyada oo mar keliya laga helayo tirada 24. Taas ayay waajib ku noqotay in laba jeer isirka 3 laga helo Dh.y.w. Sidaa daraaddeed, Dh.y.w. 18 iyo 24 waa:-

$$2 \times 2 \times 2 \times 3 \times 3 = 72$$

**Ogow:** Qodobka saddexaad looma baahna, sababta oo ah isirro gaar ahi kuma jiraan tusaalahan.

**Tusaale 2 :** Raadi Dh.y.w. 15 iyo 18.

**Furfuris:**  $18 = 2 \times 3 \times 3$

$$15 = 3 \times 5$$

Dh.y.w. 15 iyo 18 waa

**Tusaale 3:** Soo saar Dh.y.w. 72 iyo 90.

**Furfuris:**  $2 \times 3 \times 3 \times 5 = 90$

Hadda, Dh.y.w. 72 iyo 90 waxa aynu ku soo saaraynaa hab qaybeed.

Marka ugu horreysa waxa aad baadi doonaysaa isir mutuxan oo 72 iyo 90 u wada qaybsama.

Isirradu sida ay u kala yaryar yihiin baad u kala qaadanaysaa adiga oo ka bilaabaya 2.

Inta ay jirto tiro labada tiroba u wada qaybsanta waad u wada qaybinaysaa.

Marka aad weydo tiro u wada qaybsanta isirka mutuxan ee u yar ayaaad u qaybinaysaa ka uu u qaybsamo. Waxa aad ku xigsiinaysaa 3.

Sidii si le'egna waad u wadaysaa. Marka xigtana waxa aad ku dayey-saa 5, 7, 11,.... ilaa aad hesho qayb ah 1,1.

Kaddib waxa aad soo saaraysaa taranka

isirrada mutuxan.

Taranka isirrada mutuxan ayaa ah

dhufsane yaraha ay wadaag-

aan (Dh.y.w.) labada tiro. Waana:

$$2 \times 2 \times 2 \times 3 \times 3 \times 5 = 360$$

Markaa Dh.y.w. 72 iyo 90 = 360.

2	72,90
2	36,45
2	18,45
3	9,45
3	3,15
5	1,5
	1,1

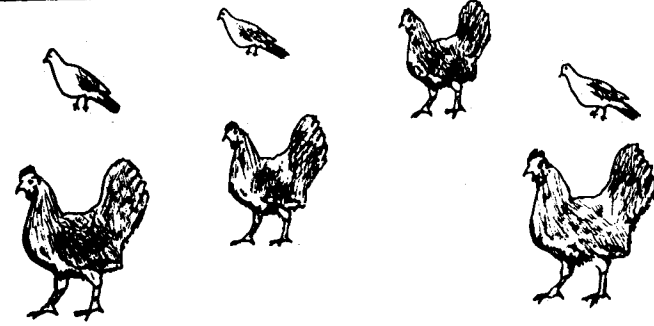
## 15.4 Dhufsane yaraha ay wadaagaan tirooyin

### Layli

1. Tax isirrida mutuxan ee tirooyinka hoos ku yaal.  
(b) 6 (t) 32 (j) 625 (x) 2401 (kh) 16807 (d) 424
2. Buuxi meelaha bannaan:  
(b) Dhufsanayaasha 12 waa \_\_\_\_\_  
(t) Dhufsanayaasha 20 waa \_\_\_\_\_  
(j) Isirrada mutuxan ee 42 waa \_\_\_\_\_  
(x) Isirrada mutuxan ee 60 waa \_\_\_\_\_  
(kh) Dh.y.w. 12 iyo 20 waa \_\_\_\_\_  
(d) Dh.y.w. 42 iyo 60 waa \_\_\_\_\_
3. Raadi Dh.y.w. lammaanayaasha tiro ee hoos ku yaal.  
(b) 18;24 (t) 16;28 (j) 15;45  
(x) 12;18 (kh) 36;60 (d) 54;64  
(r) 36;144 (s) 35;15 (sh) 9;15.
4. Soo saar Dh.y.w. tirooyinka hoos ku yaal.  
(b) 4,6,9 (t) 24,36,54 (j) 6,15,21  
(x) 18,27,45 (kh) 12,25,30 5,8,9  
(r) 6,9,12 (s) 32,8;40 (sh) 16;32;64 (dh) 10,30;50.

## Aqoonsiga jajabyada

15.5



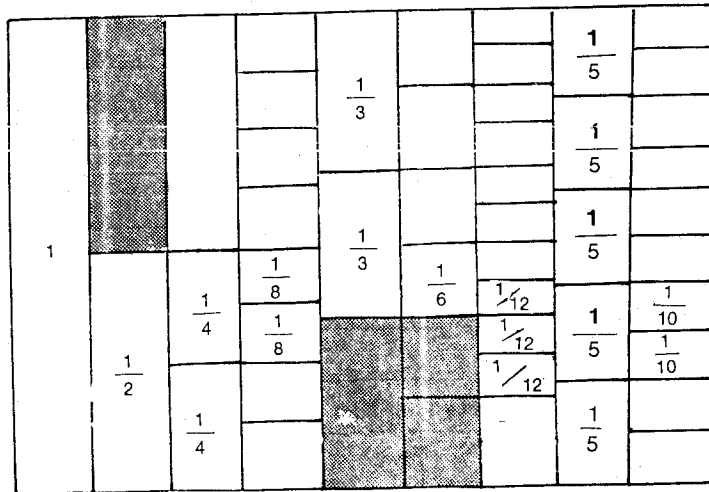
Adiga oo fiirinaya sawirka sare, ka jawaab su'aalahan soo socda:

1. Qor jajabka muujinaya tirada qoolleyda ah ee kooxdan.
2. Qor jajabka muujinaya tirada digaagga ah ee kooxdan.



Adiga oo fiirinaya sawirka sare ka jawaab su'aalahan soo socda:-

1. Qor jajabka muujinaya tirada gabdhaha ah ee ardaydan.
2. Qor jajabka muujinaya tirada wiilasha ah ee ardaydan.
3. Qor jajabka muujinaya tirada ardayda ee gashan muraayadda indhaha (xoqad).
4. Qor jajabka muujinaya tirada ardayda ee timahoodu qaawan yihiin.



Adiga oo adeegsanaysa jaantuska sare, ka jawaab su'aalaha soo socda:

1. Ku buuxi goobo kasta  $>$ ,  $<$  ama  $=$  si ay weedhahani run u noqdaan.

- (b)  $\frac{7}{8}$    $\frac{9}{12}$     (t)  $\frac{7}{10}$    $\frac{3}{5}$     (j)  $\frac{2}{5}$    $\frac{1}{3}$   
 (x)  $\frac{5}{12}$    $\frac{1}{2}$     (kh)  $\frac{5}{10}$    $\frac{2}{3}$     (d)  $\frac{1}{4}$    $\frac{1}{2}$

2. Ku buuxi tirada ku habboon meelaha bannaan:

- (b)  $\frac{4}{5} = \frac{\square}{10}$     (t)  $\frac{5}{6} = \frac{10}{\square}$     (j)  $\frac{2}{3} = \frac{\square}{12}$   
 (x)  $\frac{3}{4} = \frac{6}{\square}$     (kh)  $\frac{2}{\square} = \frac{4}{6}$     (d)  $\frac{1}{2} = \frac{\square}{4} = \frac{\square}{8} = \frac{5}{\square}$

1. U kala hormari jajabyadan sida ay u kala yar yihiin.

- (b)  $\frac{1}{5}, \frac{1}{12}, \frac{1}{3}, \frac{1}{2}, \frac{1}{6}, \frac{1}{8}, \frac{1}{4}, \frac{1}{10}$   
 (t)  $\frac{1}{2}, \frac{2}{3}, \frac{3}{8}$     (j)  $\frac{4}{6}, \frac{3}{5}, \frac{7}{12}$     (x)  $\frac{7}{10}, \frac{5}{8}, \frac{8}{12}$

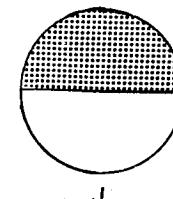
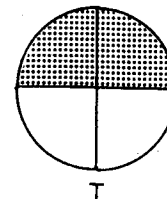
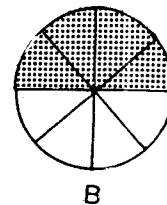
U fiirso saddexdan goobo ee isku jinka ah. Goobadee ayaa ugu meelaha ugu yar-yar?

Goobadee ayaa u qaybsan meelaha ugu badan?

Immisa ayaa ka haraysan goobada B?

Immisa ayaa ka haraysan goobada T?

Immisa ayaa ka haraysan goobada J?



Goobo kasta baddh ayaa ka haraysan, markaa

$$\frac{4}{8} = \frac{2}{4} = \frac{1}{2}$$

Marka aynu  $\frac{4}{8}$  u beddelno  $\frac{1}{2}$  waxa aynu niraahnaa, waxa

uu u qoran yahay sannadka ugu fudud.

Si sahlan oo jajibka  $\frac{4}{8}$  loogu rogo sansaan fudud waxa weey:

innaga oo sarreeyaha iyo hooseeyaha jajibkaa u qaybinayna tiro

kaliya, sida:  $\frac{4}{8} = \frac{4 \div 4}{8 \div 4} = \frac{1}{2}$

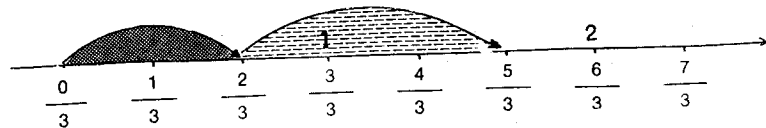
**Layil:** Jajab walba u qor sansaanka ugu fudud

- b)  $\frac{5}{10}$     t)  $\frac{3}{3}$     j)  $\frac{6}{12}$     x)  $\frac{2}{6}$     kh)  $\frac{6}{8}$     d)  $\frac{4}{10}$   
 r)  $\frac{4}{6}$     s)  $\frac{8}{16}$     sh)  $\frac{2}{4}$     dh)  $\frac{2}{10}$     c)  $\frac{4}{12}$     g)  $\frac{4}{8}$   
 f)  $\frac{3}{9}$     q)  $\frac{6}{16}$     k)  $\frac{10}{12}$     l)  $\frac{12}{10}$     m)  $\frac{2}{8}$     n)  $\frac{4}{16}$

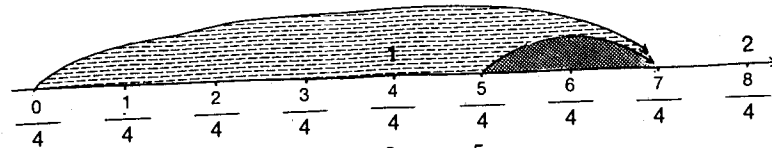


## 16.2 Isugevnta iyo kala goynta jajabyo leh hooseeyaal isu mid ah.

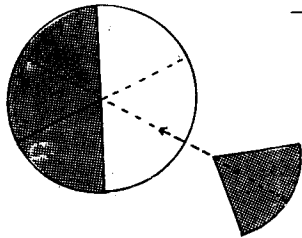
U fiirso sida la isugu geeyo ama loo kala gooyo jajabyo hooseeyahoodu isle'eg yahay.



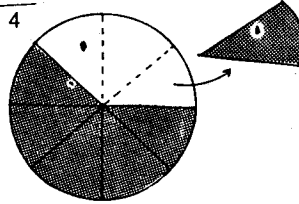
$$\frac{2}{3} + \frac{3}{3} = \frac{5}{3}$$



$$\frac{7}{4} - \frac{2}{4} = \frac{5}{4}$$



$$\frac{3}{6} + \frac{2}{6} = \frac{5}{6}$$



$$\frac{6}{8} - \frac{1}{8} = \frac{5}{8}$$

Layli: Raadi wadarta iyo faraqa jajabyadan.

- b)  $\frac{1}{4} + \frac{2}{4}$       t)  $\frac{5}{8} + \frac{3}{8}$       j)  $\frac{6}{7} - \frac{5}{7}$   
 x)  $\frac{3}{8} + \frac{1}{8}$       kh)  $\frac{10}{16} - \frac{5}{16}$       d)  $\frac{8}{3} + \frac{9}{3}$   
 $\frac{10}{20} - \frac{1}{20}$       s)  $\frac{9}{17} - \frac{8}{17}$       sh)  $\frac{6}{24} + \frac{6}{24}$   
 $\frac{1}{7} + \frac{2}{7} + \frac{3}{7}$       c)  $\frac{3}{8} + \frac{3}{8} + \frac{1}{8}$       g)  $\frac{9}{21} - \frac{3}{21}$   
 v)  $\frac{7}{12} - \frac{6}{12}$       q)  $\frac{12}{24} - \frac{9}{24}$       k)  $\frac{18}{24} + \frac{6}{24} + \frac{3}{24}$

## Jajab ma qummane iyo tiro dhafan.

Jajabka uu sarreeyihiisu ka yar yahay hooseeyihiisa waxa la yiraahdaa jajab qummane, Sida:  $\frac{1}{2}, \frac{2}{3}, \frac{7}{8}, \frac{5}{6}$

Jajabka uu sarreeyihiisu la mid yahay ama uu ka weyn yahay hooseeyaha waxa la yiraa jajab ma-qummane. Waxana ka mid ah:

$$\frac{4}{4}, \frac{5}{3}, \frac{8}{6}, \frac{6}{4}$$

Tirada dhafan waa tiro idil iyo jajab la isku qoray sida:

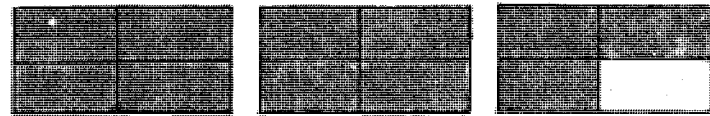
$$2 \frac{1}{2}, 1 \frac{1}{8}, 2 \frac{2}{5}, 6 \frac{3}{4}, 5 \frac{4}{5}, 3 \frac{2}{3} \text{ iwm.}$$

Bal aynu  $\frac{11}{4}$  u rognno tiro dhafan, jajabka  $\frac{11}{4}$  micnihiisu waxa weeye 11 meelood oo jinkoodu yahay afreed. Afar afreed waa wax idil.

Markaa 11 afreed waa 2 meelood oo idil iyo 3 meelood oo afreeddo ah:

$$\frac{11}{4} = 2 \frac{3}{4}$$

Ama hooseeyaha ayaa aynu u qaybinnaa sarreeyaha.



$$\frac{4}{4} + \frac{4}{4} + \frac{3}{4} = \frac{11}{4} \text{ ama } 1 + 1 + \frac{3}{4} = 2 \frac{3}{4}$$

$$\text{ama } \frac{11}{4} = 4 \frac{\frac{2}{3} \sqrt{11}}{-8} = 2 \frac{3}{4}$$

Layli: U beddel jajab ma qummanayaashan tirooyin idil ama tirooyin dhafan.

- (1)  $\frac{3}{2}$       (2)  $\frac{4}{3}$       (3)  $\frac{8}{5}$       (4)  $\frac{3}{3}$   
 (5)  $\frac{8}{6}$       (6)  $\frac{8}{4}$       (7)  $\frac{11}{3}$       (8)  $\frac{9}{6}$   
 (9)  $\frac{15}{8}$       (10)  $\frac{12}{3}$       (11)  $\frac{21}{4}$       (12)  $\frac{22}{7}$

Baro tusaalooyinkan.

1. (b)  $2 \frac{1}{2}$  waxa ay la micna tahay  $2 + \frac{1}{2}$   
 (t)  $3 \frac{1}{4} = 3 + \frac{1}{4}$       (j)  $5 \frac{1}{3} = 5 + \frac{1}{3}$
2. (b)  $\frac{3}{2} = \frac{2}{2} + \frac{1}{2} = 1 + \frac{1}{2} = 1 \frac{1}{2}$   
 (t)  $\frac{7}{3} = \frac{6}{3} + \frac{1}{3} = 2 + \frac{1}{3} = 2 \frac{1}{3}$
3. (b)  $2 \frac{2}{4} = 2 + \frac{2}{4} = \frac{8}{4} + \frac{2}{4} = \frac{10}{4}$   
 (t)  $3 \frac{3}{4} = 3 + \frac{3}{4} = \frac{12}{4} + \frac{3}{4} = \frac{15}{4}$

Layli:

1. Raadi tirada dhafan ee wadar kasta.

- (b)  $2 + \frac{1}{4} = 2 \frac{1}{4}$       (t)  $\frac{15}{5} + \frac{1}{5} = 3 + \frac{1}{5} = 3 \frac{1}{5}$   
 (j)  $3 + \frac{1}{5}$       (x)  $\frac{8}{8} + \frac{1}{8}$       (kh)  $\frac{10}{2} + \frac{f}{2}$   
 (d)  $\frac{8}{4} + \frac{1}{4}$       (r)  $5 + \frac{1}{2}$       (s)  $\frac{18}{6} + \frac{5}{6}$   
 (sh)  $8 + \frac{1}{4}$       (dh)  $\frac{10}{2} + \frac{1}{2}$       (c)  $\frac{6}{10} + \frac{7}{10}$

2. Tirooyinkan dhafan u rog jajab ma qummane.

- (b)  $1 \frac{1}{2}$       (t)  $2 \frac{1}{3}$       (j)  $4 \frac{2}{3}$   
 (x)  $6 \frac{3}{2}$       (kh)  $4 \frac{5}{3}$       (d)  $3 \frac{3}{2}$   
 (r)  $3 \frac{4}{5}$       (s)  $2 \frac{4}{5}$       (sh)  $1 \frac{7}{8}$   
 (dh)  $5 \frac{7}{8}$       (c)  $3 \frac{5}{4}$       (g)  $7 \frac{5}{6}$

Tusaalooyinka soo socdaa waxa ay muujinayaan isugeynta tiro dhafan, tiro idil iyo jajab.

1. Raadi wadarta

$$3 + 4 \frac{1}{2}$$

Furfuris:

$$3 + 4 \frac{1}{2} = 3 + 4 + \frac{1}{2} = 7 + \frac{1}{2} = 7 \frac{1}{2}$$

2. Raadi wadarta

$$5 \frac{1}{4} + \frac{2}{4} = 5 + \frac{1}{4} + \frac{2}{4} = 5 + \frac{3}{4} = 5 \frac{3}{4}$$

Layli:

Raadi wadarta.

- |                                     |                                      |                                      |
|-------------------------------------|--------------------------------------|--------------------------------------|
| (1) $2 + 3 \frac{1}{2}$             | (2) $3 \frac{1}{3} + \frac{1}{3}$    | (3) $3 + 4 \frac{3}{8}$              |
| (4) $6 \frac{3}{8} + \frac{2}{8}$   | (5) $7 + 1 \frac{3}{4}$              | (6) $4 + 3 \frac{1}{5}$              |
| (7) $4 \frac{3}{10} + \frac{5}{10}$ | (8) $8 \frac{1}{9} + \frac{4}{9}$    | (9) $7 + 2 \frac{3}{9}$              |
| (10) $2 \frac{1}{4} + \frac{1}{4}$  | (11) $12 + 6 \frac{2}{6}$            | (12) $6 \frac{1}{5} + \frac{3}{5}$   |
| (13) $2 \frac{3}{7} + \frac{1}{7}$  | (14) $5 + 4 \frac{3}{4}$             | (15) $4 \frac{3}{5} + \frac{4}{5}$   |
| (16) $3 \frac{1}{4} + \frac{1}{4}$  | (17) $4 + 4 \frac{3}{5}$             | (18) $5 + 3 \frac{7}{8}$             |
| (19) $2 \frac{7}{8} + \frac{1}{8}$  | (20) $4 \frac{7}{12} + \frac{1}{12}$ | (21) $2 \frac{9}{18} + \frac{2}{18}$ |

Wadarta laba tiro oo dhafan waa tiro dhafan oo qaybteeda idil ay tahay wadarta qaybaha idil ee labada tiro ee dhafan, qaybteeda jajibka ahna ay tahay wadarta qaybaha jajibka ah ee labada tiro ee dhafan.

Tusaalooyin:

$$3 \frac{1}{6} + 2 \frac{3}{6} = 3 + \frac{1}{6} = 2 + \frac{3}{6} = 3 + 2 + \frac{1}{6} + \frac{3}{6} \\ = 5 + \frac{1+3}{6} = 5 + \frac{4}{6} = 5 \frac{4}{6}$$

$$2. \quad 3 \frac{1}{8} + 4 \frac{4}{8} = 3 + \frac{1}{8} + 4 + \frac{4}{8} = 3 + 4 + \frac{1}{8} + \frac{4}{8} \\ = 7 + \frac{1+4}{8} = 7 + \frac{5}{8} = 7 \frac{5}{8}$$

**Layli:** Raadi wadarta

$$(1) 5 \frac{1}{4} + 2 \frac{2}{4} \quad (2) 7 \frac{3}{5} + 2 \frac{1}{5} \quad (3) 6 \frac{4}{8} + 1 \frac{3}{8}$$

$$(4) 2 \frac{3}{10} + 1 \frac{5}{10} \quad (5) 1 \frac{2}{6} + 2 \frac{4}{6} \quad (6) 4 \frac{1}{5} + 2 \frac{2}{5}$$

$$(7) 4 \frac{5}{6} + 3 \frac{2}{6} \quad (8) 8 \frac{3}{4} + 7 \frac{3}{4} \quad (9) 6 \frac{1}{5} + 3 \frac{3}{5}$$

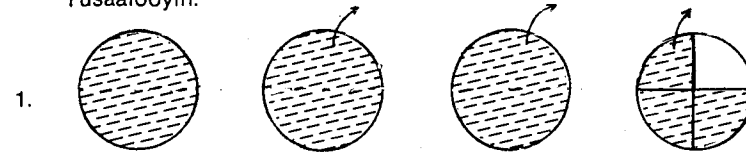
$$(10) 1 \frac{3}{8} + 4 \frac{2}{8} + 6 \frac{7}{8} \quad (11) 1 \frac{4}{7} + \frac{3}{7}$$

$$(12) 9 \frac{7}{20} + 3 \frac{4}{20} \quad (13) 2 \frac{7}{8} + \frac{3}{8} + 1 \frac{9}{8}$$

$$(14) 4 \frac{7}{12} + 3 \frac{5}{12} + 2 \frac{5}{12}$$

Marka laba tiro oo dhafan la kala goynayo waxa marka hore la kala gooyaa tirooyinka idil ee labada tiro ee dhafan, ka dibna jajabyada.

Tusaalooyin:



$$3 \frac{3}{4} - 2 \frac{1}{4} = 3 - 2 + \frac{3}{4} - \frac{1}{4} = 1 + \frac{3-1}{4} \\ = 1 + \frac{2}{4} = 1 \frac{2}{4} = 1 \frac{1}{2}$$

$$2. \quad 5 \frac{6}{7} - 3 \frac{2}{7} = 5 - 3 + \frac{6}{7} - \frac{2}{7} = 2 + \frac{6-2}{7} \\ = 2 + \frac{4}{7} = 2 \frac{4}{7}$$

**Layli:** Raadi faraqa:

$$(1) 5 \frac{4}{6} - 2 \frac{2}{6} \quad (2) 7 \frac{3}{4} - 3 \frac{2}{4} \quad (3) 5 \frac{3}{7} - \frac{2}{7}$$

$$(4) 12 \frac{3}{10} - 8 \quad (5) 4 \frac{2}{3} - 2 \quad (6) 3 \frac{5}{8} - \frac{3}{8}$$

$$(7) 4 \frac{3}{5} - \frac{1}{5} \quad (8) 6 \frac{7}{9} - 1 \frac{4}{9} \quad (9) 3 \frac{3}{5} - 2 \frac{1}{5}$$

$$(10) 9 \frac{7}{8} - 4 \frac{5}{8} \quad (11) 8 \frac{3}{5} - 4 \quad (12) 3 \frac{7}{12} - 1 \frac{5}{12}$$

$$(13) 2 \frac{2}{6} - 1 \frac{1}{6} \quad (14) 12 \frac{7}{9} - 6 \quad (15) 5 \frac{3}{4} - \frac{2}{4}$$

## 17.2 Isugeynta jajabyo leh hooseeyaal kala duwan.

Marka la isugeynayo laba jajab oo hooseeyahoodu kala duwan yahay waxa isku mid laga dhigaa hooseeyeaashooda iyada oo sarreeyaha iyo hooseeyaha jajabka lagu dhufanayo tiro isku mid ah.

Tusaalooyin

$$1. \frac{1}{4} + \frac{3}{8} = \frac{1 \times 2}{4 \times 2} + \frac{3}{8} = \frac{2}{8} + \frac{3}{8} = \frac{2+3}{8} = \frac{5}{8}$$

$$2. \frac{2}{12} + \frac{1}{6} + \frac{3}{12} = \frac{2}{12} + \frac{1 \times 2}{3 \times 4} + \frac{3}{12}$$

$$= \frac{2}{12} + \frac{4}{12} + \frac{3}{12} = \frac{2+4+3}{12} = \frac{9}{12} = \frac{3}{4}$$

**Layli:** Raadi wadarta jajabyada soo socda:

$$(1) \frac{3}{8} + \frac{1}{4}$$

$$(2) \frac{2}{3} + \frac{1}{21}$$

$$(3) \frac{1}{4} + \frac{5}{16}$$

$$(4) \frac{5}{12} + \frac{1}{6}$$

$$(5) \frac{1}{2} + \frac{5}{12}$$

$$(6) \frac{1}{5} + \frac{3}{10}$$

$$(7) \frac{2}{15} + \frac{1}{3}$$

$$(8) \frac{2}{3} + \frac{7}{12}$$

$$(9) \frac{7}{9} + \frac{2}{3}$$

$$(10) \frac{1}{24} + \frac{1}{6} + \frac{1}{24}$$

$$(11) \frac{7}{8} + \frac{1}{2}$$

$$(12) \frac{7}{12} + \frac{5}{6} + \frac{1}{12}$$

$$(13) \frac{9}{14} + \frac{4}{7}$$

$$(14) \frac{3}{4} + \frac{11}{16}$$

$$(15) \frac{5}{8} + \frac{7}{16} + \frac{3}{16}$$

## Kala goynta jajabyo leh hooseeyaal kala duwan.

17.3

Marka aynu kala goyneyno jajabyo hooseeyaal kala duwan, waxa aynu u beddelnaa jajabyada jajabyo isu eg ama jajabyo hooseeye wadaag ah.

Tusaalooyin:

$$1. \frac{7}{8} - \frac{1}{2} = \frac{7}{8} - \frac{1 \times 4}{2 \times 4}$$

$$= \frac{7}{8} - \frac{4}{8} = \frac{7-4}{8} = \frac{3}{8}$$

$$2. \frac{9}{12} - \frac{2}{3} = \frac{9}{12} - \frac{2 \times 4}{3 \times 4}$$

$$= \frac{9}{12} - \frac{8}{12} = \frac{9-8}{12} = \frac{1}{12}$$

**Layli:** Raadi faraaqa jajabyada soo socda:

$$(1) \frac{1}{4} - \frac{1}{8}$$

$$(2) \frac{1}{9} - \frac{1}{18}$$

$$(3) \frac{1}{2} - \frac{1}{4}$$

$$(4) \frac{3}{8} - \frac{1}{4}$$

$$(5) \frac{1}{5} - \frac{1}{10}$$

$$(6) \frac{1}{2} - \frac{1}{6}$$

$$(7) \frac{3}{4} - \frac{5}{8}$$

$$(8) \frac{3}{5} - \frac{3}{10}$$

$$(9) \frac{5}{6} - \frac{3}{18}$$

$$(10) \frac{7}{9} - \frac{1}{3}$$

$$(11) \frac{3}{5} - \frac{2}{15}$$

$$(12) \frac{4}{7} - \frac{3}{14}$$

$$(13) \frac{9}{14} - \frac{1}{2}$$

$$(14) \frac{13}{16} - \frac{1}{8}$$

$$(15) \frac{5}{32} - \frac{1}{8}$$

1. Raadi wadarta  $2 \frac{1}{4} + 1 \frac{1}{2}$

**Furfuris:** Jajabka  $\frac{1}{2}$  ka dhig jajab hooseeyihiisu yahay 4.

**Markaa:**

$$2 \frac{1}{4} + 1 \frac{1}{2} = 2 \frac{1}{4} + 1 \frac{1 \times 2}{2 \times 2}$$

$$= 2 \frac{1}{4} + 1 \frac{2}{4}$$

$$= 2 + \frac{1}{4} + 1 + \frac{2}{4}$$

$$= 2 + 1 + \frac{1}{4} + \frac{2}{4}$$

$$= 3 + \frac{3}{4}$$

$$= 3 \frac{3}{4}$$

2. Raadi faraqa  $4 \frac{1}{3} - 1 \frac{2}{9}$

**Furfuris:** Jajabka  $\frac{1}{3}$  ka dhig jajab hooseeyihiisu yahay 9.

**Markaa:**

$$4 \frac{1}{3} - 1 \frac{2}{9} = 4 \frac{1 \times 3}{3 \times 3} - 1 \frac{2}{9}$$

$$= 4 \frac{3}{9} - 1 \frac{2}{9}$$

$$= 4 - 1 + \frac{3}{9} - \frac{2}{9}$$

$$= 3 + \frac{1}{9} = 3 \frac{1}{9}$$

**Layli:** \_\_\_\_\_

Raadi wadarta iyo faraca tirooyinka dhafan

- (1)  $2 \frac{1}{6} + 3 \frac{1}{3}$  (2)  $5 \frac{1}{2} - 2 \frac{1}{6}$  (3)  $2 \frac{1}{3} + 2 \frac{3}{9}$   
 (4)  $3 \frac{1}{2} - 1 \frac{1}{4}$  (5)  $3 \frac{2}{3} - 1 \frac{1}{4}$  (6)  $5 \frac{3}{8} - 1 \frac{2}{4}$   
 (7)  $5 \frac{1}{10} + 2 \frac{2}{5}$  (8)  $2 \frac{1}{6} + 3 \frac{1}{2}$  (9)  $5 \frac{7}{10} - 3 \frac{2}{5}$

Tusaalooyin

1. Raadi faraqa  $5 - 1 \frac{1}{3}$

**Furfuris:** Tirada  $5 = 4 + 1 = 4 + \frac{3}{3}$

**Markaa:**

$$5 - 1 \frac{1}{3} = 4 \frac{3}{3} - 1 \frac{1}{3}$$

$$= 3 \frac{2}{3}$$

2. Raadi faraqa  $3 \frac{1}{4} - 1 \frac{2}{4}$

**Furfuris:** Suuragal ma aha in  $\frac{2}{4}$  laga gooyo  $\frac{1}{4}$  Sidaa daraad-  
 eed, 1 ayaan ka qaadanaynaa 3, waxana aan ka dhigaynaa jajab  
 hooseeyihiisu yahay 4 sidan oo kale:

$$3 \frac{1}{4} = 3 + \frac{1}{4} = 2 + \frac{4}{4} + \frac{1}{4} = 2 \frac{5}{4}$$

**Markaa:**

$$3 \frac{1}{4} - 1 \frac{2}{4} = 2 \frac{5}{4} - 1 \frac{2}{4} = 1 \frac{3}{4}$$

**Layli:** \_\_\_\_\_

(1)  $4 - 2 \frac{1}{4}$  (2)  $5 \frac{1}{9} - 3 \frac{4}{9}$  (3)  $3 - \frac{7}{6}$

(4)  $4 \frac{1}{6} - 1 \frac{3}{6}$  (5)  $6 \frac{1}{3} - 2 \frac{5}{6}$

(6)  $5 \frac{1}{2} - 2 \frac{3}{4}$  (7)  $6 - 1 \frac{2}{7}$  (8)  $7 - 1 \frac{2}{5}$

(9)  $4 - \frac{3}{5}$  (10)  $4 \frac{1}{3} - 1 \frac{5}{6}$  (11)  $2 \frac{3}{5} - 1 \frac{6}{10}$

(12)  $3 \frac{1}{8} - 1 \frac{1}{4}$

## MAS'ALOOYIN

1. Cabdi waxa uu maalin socday  $5 \frac{3}{10}$  Km. Maalintii ku xigtayna wuxuu socday  $3 \frac{9}{10}$  Km. Immisa kiilomitir buu Cabdi socday labada maalmood?
2. Raxma ayaa haysatay  $4 \frac{3}{5}$  Kg. oo basal ah. Waxa ay qadadii ku karisay  $\frac{1}{5}$  Kg. Immisa kiilo ayaa u soo hartay basashii?
3. Cali waxa uu dabay kalluun dhan  $2 \frac{1}{2}$  kiilo. Jaamac-na waxa kale oo uu dabay kalluun dhan  $1 \frac{3}{4}$  kiilo. Immisa kiilo oo kalluun ah ayaa ay wada dabeen?
4. Caasha hooyadeed waxa ay haysatay  $1 \frac{1}{4}$  kiilo oo sonkor ah, waxa ay subaxnimadii karisay  $\frac{3}{4}$  kiilo. Immisa kiilo ayaa u soo hartay sonkortii?
5. Cumar ayaa iibsaday qalin qiimahiisu yahay  $6 \frac{1}{2}$  shilin. Buug qiimahiisu yahay  $2 \frac{3}{4}$  shilin. Immisa shilin ayaa uu ku soo iibsaday dhammaan?
6. Hooyo ayaa haysatay 3 litir oo caano ah, waxa ay caruurteedii siisay  $2 \frac{3}{5}$  litir. Immisa litir ayaa caanihii u soo hartay?

Marka la isugaynayo jajabyo kala duwan waxaa marka hore isku mid laga dhigaa hooseeyayaashooda ka hor inta aan la isugeyn.

Tusaale:

$$1. \text{ Raadi wadarta } \frac{2}{5} + \frac{3}{8}$$

$$\begin{aligned} \text{Furfuris: } \frac{2}{5} + \frac{3}{8} &= \frac{2 \times 8}{5 \times 8} + \frac{3 \times 5}{8 \times 5} \\ &= \frac{16}{40} + \frac{15}{40} \\ &= \frac{16+15}{40} = \frac{31}{40} \end{aligned}$$

$$2. \text{ Raadi wadarta } \frac{5}{9} + \frac{4}{15}$$

$$\begin{aligned} \text{Furfuris: } \frac{5}{9} + \frac{4}{15} &= \frac{5 \times 5}{9 \times 5} + \frac{4 \times 3}{15 \times 3} \\ &= \frac{25}{45} + \frac{12}{45} \\ &= \frac{25+12}{45} = \frac{37}{45} \end{aligned}$$

Layli: Raadi wadarta jajabyada soo socda:

- |   |                                   |                                    |
|---|-----------------------------------|------------------------------------|
| (1) $\frac{2}{3} + \frac{1}{9}$               | (2) $\frac{3}{10} + \frac{7}{15}$ | (3) $\frac{7}{12} + \frac{11}{16}$ |
| (4) $\frac{3}{4} + \frac{2}{3}$               | (5) $\frac{1}{3} + \frac{1}{2}$   | (6) $\frac{3}{4} + \frac{2}{5}$    |
| (7) $\frac{1}{3} + \frac{2}{4} + \frac{1}{6}$ | (8) $\frac{11}{12} + \frac{3}{8}$ | (9) $\frac{5}{20} + \frac{6}{15}$  |

## 18.2 Kala goynta jajabyo

Marka la kala goynayo jajabyo hooseeyaal kala duwan leh, waxa isku mid laga dhigaa hooseeyaaasha jajabyada, ka hor inta aan la samayn kala goyntooda.

**Tusaale:**

1. Raadi faraaqa

**Furfurils:** Marka hore isku mid ka dhig hooseeyaaasha.

$$\begin{aligned} \frac{8}{9} - \frac{5}{6} &= \frac{8 \times 2}{9 \times 2} - \frac{5 \times 3}{6 \times 3} \\ &= \frac{16}{18} - \frac{15}{18} \text{ hooseeyaha ay wadaagaan waa } 18 \\ &= \frac{16 - 15}{18} = \frac{1}{18} \end{aligned}$$

**Layli:** Raadi faraaqa jajabyada soo socda.

- |                                    |                                   |                                   |
|------------------------------------|-----------------------------------|-----------------------------------|
| (1) $\frac{7}{9} - \frac{3}{4}$    | (2) $\frac{5}{7} - \frac{1}{3}$   | (3) $\frac{15}{17} - \frac{1}{2}$ |
| (4) $\frac{37}{42} - \frac{9}{14}$ | (5) $\frac{5}{6} - \frac{3}{8}$   | (6) $\frac{17}{21} - \frac{7}{9}$ |
| (7) $\frac{5}{6} - \frac{1}{4}$    | (8) $\frac{3}{5} - \frac{2}{7}$   | (9) $\frac{3}{8} - \frac{2}{12}$  |
| (10) $\frac{3}{16} - \frac{1}{6}$  | (11) $\frac{9}{14} - \frac{1}{5}$ | (12) $\frac{5}{36} - \frac{1}{8}$ |

## Isugeynta tirooyinka dhafan.

## 18.3

**Tusaale:** Raadi wadarta  $2 \frac{2}{5} + 3 \frac{3}{4}$

Si aan u samayno isugeynta waxa aan raacaynaa dariiqada soo socota:-

$$\begin{aligned} 2 \frac{2}{5} + 3 \frac{3}{4} &= (\frac{2}{5} + 2) + (\frac{3}{4} + 3) \\ &= \frac{2}{5} + 2 + \frac{3}{4} + 3 \\ &= \frac{2}{5} + \frac{3}{4} + 2 + 3 \\ &= (\frac{2}{5} + \frac{3}{4}) + (2 + 3) \end{aligned}$$

Waxa aan isku mid ka dhigaynaa hooseeyaaasha jajabyada.

$$\frac{2}{5} + \frac{3}{4} = \frac{2 \times 4}{5 \times 4} + \frac{3 \times 5}{4 \times 5} = \frac{8}{20} + \frac{15}{20}$$

Hooseeyaha ay wadaagaan waa 20.

$$\frac{8}{20} + \frac{15}{20} = \frac{8 + 15}{20} = \frac{23}{20}$$

Sidaasi daraadeed

$$\begin{aligned} 2 \frac{2}{5} + 3 \frac{3}{4} &= \frac{23}{20} + 5 \quad (\text{Sideed u heshay tirada } 1 \frac{3}{20} ) \\ &= 1 \frac{3}{20} + 5 \\ &= 6 \frac{3}{20} \end{aligned}$$

**Layli:** Raadi wadarta jajabyada soo socda:

- |                                       |                                      |  |
|---------------------------------------|--------------------------------------|--|
| (1) $3 \frac{7}{8} + \frac{5}{6}$     | (2) $8 \frac{5}{7} + 9$              | (3) $1 \frac{4}{9} + 2 \frac{7}{12}$                 |
| (4) $5 \frac{24}{8} + 2 \frac{10}{3}$ | (5) $9 \frac{4}{7} + 12 \frac{3}{4}$ | (6) $1 \frac{3}{7} + 2 \frac{1}{6} + 4 \frac{2}{21}$ |

## 18.4 Kala goynta tirooyin dhafan.

**Tusaale:** Raadi faraqa  $6 \frac{3}{5} - 2 \frac{2}{3}$ .

Si aan u soo saarno faraqa labadan jajab waxa aan raacaynaa dariiqadda soo socota:

$$6 \frac{3}{5} - 2 \frac{2}{3} = 6 \frac{9}{15} - 2 \frac{10}{15}$$

Waxa muuqata in aan la kala goyn karin labada jajab (sidaa daraadeed, hal tiro oo idil ayaan ka qaadanaynaa tirada 6. Waxaan u geynaynaa jajabka  $\frac{9}{15}$  )

$$\begin{aligned} \text{Markaa: } 6 \frac{9}{15} - 2 \frac{10}{15} &= 5 \frac{24}{15} - 2 \frac{10}{15} \\ &= 5 - 2 + \frac{24}{15} - \frac{10}{15} \\ &= 3 \frac{14}{15} \end{aligned}$$

**Layli:** Raadi faraqa jajabyada soo socda:-

- |                                       |  |  |
|---------------------------------------|--|--|
| 1) $7 \frac{1}{4} - 3 \frac{1}{3}$    | 2) $13 \frac{7}{18} - 8 \frac{13}{30}$ | 3) $6 \frac{1}{4} - \frac{5}{8}$       |
| 4) $9 \frac{7}{12} - 5 \frac{11}{15}$ | 5) $8 \frac{7}{10} - \frac{11}{12}$    | 6) $37 \frac{5}{12} - 19 \frac{9}{14}$ |
| 7) $5 \frac{5}{6} - 2 \frac{8}{9}$    | 8) $24 \frac{3}{8} - \frac{13}{18}$    | 9) $90 \frac{7}{18} - 39 \frac{5}{8}$  |

## Isugeynta jajabyada

## 18.5

Waxa aan soo aragnay tabo la isugu geeyo jajabyada. Imminkana waxa aan baranaynaa tab kale iyada oo la isticmaalayo dhufsane yaraha ay hooseeyeyaashu wadaagaan.

**Tusaale:**

1) Raadi wadarta  $\frac{1}{4} + \frac{2}{3}$

**Furfuris:** Dh.Y.W. 4 iyo 3 waa 12.

$$\text{Markaa: } \frac{1}{4} + \frac{2}{3} = \frac{1 \times 3 + 2 \times 4}{12} = \frac{3 + 8}{12} = \frac{11}{12}$$

2) Raadi wadarta  $2 \frac{1}{2} + 3 \frac{1}{3}$

**Furfuris:** Dh.y.w. 2 iyo 3 waa 6

$$\begin{aligned} \text{Haddaba, } 2 \frac{1}{2} + 3 \frac{1}{3} &= \frac{1}{2} + \frac{1}{3} + 2 + 3 \\ &= \frac{1 \times 3 + 1 \times 2}{6} + 5 \\ &= \frac{3 + 2}{6} + 5 = \frac{5}{6} + 5 \\ &= 5 \frac{5}{6} \end{aligned}$$

**Layli:** Raadi wadarta jajabyada soo socda.

- |                                    |                                     |                                       |
|------------------------------------|-------------------------------------|---------------------------------------|
| 1) $\frac{1}{2} + \frac{1}{6}$     | 2) $\frac{5}{6} + \frac{3}{4}$      | 3) $3 \frac{3}{10} + 1 \frac{2}{3}$   |
| 4) $\frac{1}{6} + \frac{3}{4}$     | 5) $10 \frac{3}{8} + 3 \frac{2}{3}$ | 6) $\frac{3}{7} + \frac{2}{5}$        |
| 7) $9 \frac{5}{8} + 4 \frac{4}{5}$ | 8) $\frac{4}{5} + \frac{1}{2}$      | 9) $16 \frac{2}{3} + 12 \frac{9}{10}$ |
| 10) $\frac{1}{3} + \frac{1}{6}$    | 11) $8 \frac{4}{9} + 6 \frac{1}{2}$ | 12) $7 \frac{2}{3} + 6 \frac{1}{5}$   |



Waxa aynu soo aragnay tab la isugu geeyo jajabyada iyada oo la adeegsanayo dhufsane yaraha ay hooseeyayaashu wadaagaan. Imminkana waxa aan baranaynaa kala goynta jajabyada iyada oo aynu adeegsanayno Dh.y.w.

**Tusaale:**

$$1) \text{ Raadi faraqa } \frac{3}{4} - \frac{2}{3}$$

**Furfuris:** Dh.y.w. hooseeyayaasha 4 iyo 3 waa 12.

$$\text{Haddaba, } \frac{3}{4} - \frac{2}{3} = \frac{3 \times 3 - 2 \times 4}{12} = \frac{9 - 8}{12} = \frac{1}{12}$$

$$2) \text{ Raadi faraqa } 2 \frac{1}{2} - 1 \frac{1}{3}$$

**Furfuris:** Dh.y.w. hooseeyayaashu 2 iyo 3 waa 6.

$$\begin{aligned} \text{Haddaba, } 2 \frac{1}{2} - 1 \frac{1}{3} &= 2 - 1 + \frac{1}{2} - \frac{1}{3} \\ &= 2 - 1 + \frac{1 \times 3 - 1 \times 2}{6} \\ &= 2 - 1 + \frac{3 - 2}{6} \\ &= 1 + \frac{1}{6} = 1 \frac{1}{6} \end{aligned}$$

**Layli:** Raadi faraqa jajabyada soo socda.

$$1) \frac{4}{5} - \frac{1}{3} \quad 2) 3 \frac{7}{10} - 2 \frac{1}{4} \quad 3) \frac{2}{3} - \frac{1}{2}$$

$$4) 5 \frac{4}{5} - 2 \frac{2}{3} \quad 5) \frac{1}{3} - \frac{1}{4} \quad 6) 15 \frac{1}{3} - 11 \frac{1}{2}$$

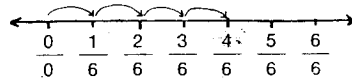
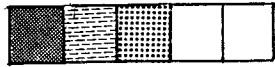
$$7) \frac{5}{6} - \frac{3}{4} \quad 8) 9 \frac{1}{3} - 4 \frac{1}{2} \quad 9) 4 \frac{1}{4} - 1 \frac{2}{3}$$

$$10) 3 \frac{5}{6} - 1 \frac{3}{4} \quad 11) \frac{5}{8} - \frac{1}{2} \quad 12) \frac{3}{4} - \frac{1}{5}$$

### MAS'ALOOYIN

1. Faadumo waxa ay haysatey  $\frac{3}{5}$  dhalo oo saliid ah, waxana ay isticmaashay  $\frac{2}{7}$ . Immisa ayaa saliidii u soo hartay?
2. Axmed- ayaa soo iibsaday 1  $\frac{3}{5}$  mitir oo dhar ah, Faar- axna 3  $\frac{1}{5}$  mitir oo dhar ah, Cabdina 2  $\frac{2}{5}$  mitir oo dhar ah. Immisa mitir oo dhar ah ayaa ay soo gateen saddexdoodu?
3. Canab oo haysatey 18 shilin ayaa 10  $\frac{3}{4}$  shilin ku soo gadatay buskud iyo tirtire. Immisa shilin ayaa u soo hartay?
4. Haashim ayaa lugeeyey  $\frac{1}{4}$  km, kadibna waxa uu baabuur ku maray 2  $\frac{8}{5}$  km. Sheeg wadarta inta kiiloomitir ee uu socday Haashim?
5. Khadra ayaa haysatay 6  $\frac{2}{3}$  mitir oo dhar ah. Waxa ay Xaliimo ka siisay 2  $\frac{1}{4}$  mitir. Immisa mitir ayaa u soo hartay Khadra?
6. Cumar ayaa soo gatay 2 kiish oo ay ku kala jiraan 3  $\frac{1}{2}$  kiilo oo sonkor ah iyo 18  $\frac{7}{9}$  kiilo oo sonkor ah. Immisa kiilo oo sonkor ah ayaa uu Cumar soo iibsadey?

## 19.2 Isku dhufashada tiro idil iyo jajib.



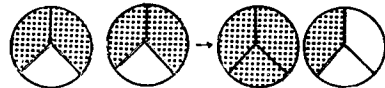
1 shaneed + 1 shaneed + 1 shaneed = 3 shaneed.

$$\frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} = \frac{4}{6}$$

$$\frac{1}{5} + \frac{1}{5} + \frac{1}{5} = \frac{3}{5}$$

$$4 \times \frac{1}{6} = \frac{4 \times 1}{6} = \frac{4}{6}$$

$$3 \times \frac{1}{5} = \frac{3 \times 1}{5} = \frac{3}{5}$$



$$3 \times \frac{1}{4} = \frac{3 \times 1}{4} = \frac{3}{4}$$

$$2 \times \frac{2}{3} = \frac{2 \times 2}{3} = \frac{4}{3}$$

Marka tiro idil lagu dhufto jajib caadi ah tarantu waa jajib caadi ah,

oo sarreeyihiisu yahay taranta tirada idil iyo sarreeyaha jajibka,

hooseeyihiisuna yahay hooseeyaha jajibka caadiga ah.

**Layli:** \_\_\_\_\_

Raadi taranka

(1)  $2 \times \frac{2}{3}$

(2)  $7 \times \frac{1}{6}$

(3)  $5 \times \frac{3}{4}$

(4)  $10 \times \frac{3}{8}$

(5)  $8 \times \frac{1}{6}$

(6)  $16 \times \frac{1}{3}$

(7)  $4 \times \frac{2}{5}$

(8)  $13 \times \frac{1}{7}$

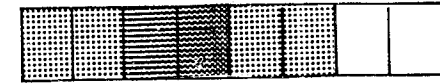
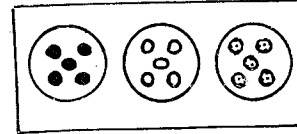
(9)  $11 \times \frac{5}{6}$

(10)  $8 \times \frac{2}{5}$

(11)  $6 \times \frac{2}{7}$

(12)  $9 \times \frac{1}{2}$

## Isku dhufashada jajib iyo tiro idil.



$$\frac{1}{3} \text{ ka } 15 = 5$$

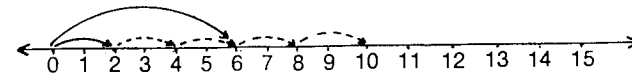
$$\frac{1}{4} \text{ ka } 8 = 2$$

$$\frac{1}{3} \times 15 = 5$$

$$\frac{1}{4} \times 8 = 2$$

$$\frac{2}{3} \times 15 = 10$$

$$\frac{3}{4} \times 8 = 6$$



$$\frac{1}{5} \text{ ka } 10 = 2$$

$$\frac{3}{5} \text{ ka } 10 = 6$$

$$\frac{3}{5} \times 10 = 6$$

**Layli:** \_\_\_\_\_

Ku buuxi meelaha bannaan tirooyinka ku habboon.

(1)  $\frac{1}{3} \times 9 = \square$  (2)  $\frac{1}{5} \times 20 = \square$  (3)  $\frac{2}{5} \times 10 = \square$

(4)  $\square \times 18 = 6$  (5)  $\frac{1}{4} \times \square = 3$  (6)  $\square \times 15 = 9$

(7)  $\frac{2}{3} \times 9 = \square$  (8)  $\frac{1}{8} \times 16 = \square$  (9)  $\frac{5}{6} \times 12 = \square$

(10)  $\square \times 18 = 4$  (11)  $\frac{1}{6} \times \square = 2$  (12)  $\frac{1}{4} \times \square = 4$

(13)  $\frac{2}{3} \times \square = 8$  (14)  $\frac{4}{5} \times 20 = \square$  (15)  $\frac{5}{4} \times \square = 5$

Marka tiro dhafan loo rogayo jajab ma-qummane waxa la sameeyaa.

1. Tirada idil ku dhufo hooseeyaha jajabka.
2. Isugee tarankaa iyo sarreeyaha jajabka.
3. Wadarta hoosteeda ku qor hooseeyaha.

Tusaale:

$$(1) 1 \frac{1}{3} = \frac{(1 \times 3) + 1}{3} = \frac{3 + 1}{3} = \frac{4}{3}$$

$$(2) 8 \frac{3}{4} = \frac{(8 \times 4) + 3}{4} = \frac{32 + 3}{4} = \frac{35}{4}$$

$$(3) 3 \frac{2}{3} = \frac{(3 \times 3) + 2}{3} = \frac{9 + 2}{3} = \frac{11}{3}$$

$$(4) 4 \frac{1}{2} = \frac{(4 \times 2) + 1}{2} = \frac{8 + 1}{2} = \frac{9}{2}$$

Layli:

Tirooyinka dhafan ee soo socda u rog jajab maqummane.

$$(1) 2 \frac{2}{3}$$

$$(2) 5 \frac{1}{3}$$

$$(3) 4 \frac{2}{3}$$

$$(4) 5 \frac{2}{5}$$

$$(5) 3 \frac{2}{3}$$

$$(6) 6 \frac{5}{7}$$

$$(7) 3 \frac{7}{12}$$

$$(8) 2 \frac{3}{4}$$

$$(9) 3 \frac{2}{9}$$

$$(10) 6 \frac{2}{3}$$

$$(11) 5 \frac{1}{6}$$

$$(12) 3 \frac{5}{6}$$

Marka tiro idil lagu dhufanayo tiro dhafan, tirada dhafan ayaa loo

rogayaa jajab ma-qummane kadibna waxa laysku dhufanayaa tirada

idil iyo jajab ma-qummanaha.

Tusaale:

$$1. 3 \times 2 \frac{1}{2} = 3 \times \frac{5}{2} = \frac{3 \times 5}{2} = \frac{15}{2} = 7 \frac{1}{2}$$

$$2. 1 \frac{1}{2} \times 2 = \frac{3}{2} \times 2 = \frac{3 \times 2}{2} = \frac{6}{2} = 3$$

$$3. 5 \times 3 \frac{1}{4} = 5 \times \frac{13}{4} = \frac{5 \times 13}{4} = \frac{65}{4} = 16 \frac{1}{4}$$

Layli:

Isku dhufo isla markaana fududee marka ay suura gal tahay.

Fiiri shaxannada hoose.

$$(1) 6 \times 8 \frac{3}{4}$$

$$(2) 16 \times 5 \frac{5}{9}$$

$$(3) 10 \times 3 \frac{2}{3}$$

$$(4) 9 \times 7 \frac{2}{5}$$

$$(5) 3 \frac{1}{2} \times 7$$

$$(6) 7 \frac{3}{4} \times 5$$

$$(7) 8 \times 7 \frac{7}{3}$$

$$(8) 4 \frac{2}{3} \times 9$$

$$(9) 8 \frac{1}{4} \times 7$$

$$(10) 6 \times 4 \frac{5}{6}$$

$$(11) 2 \frac{2}{3} \times 6$$

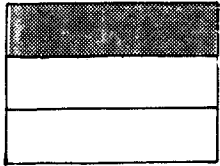
$$(12) 12 \times 5 \frac{5}{7}$$

$$(13) 4 \times 3 \frac{1}{8}$$

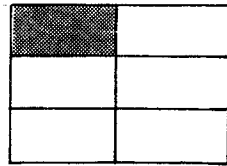
$$(14) 9 \frac{1}{6} \times 6$$

$$(15) 7 \times 2 \frac{2}{5}$$

Fiiri shaxannada hoose



$$\frac{1}{3} \text{ ayaa xardhan}$$



$$\frac{1}{2} \text{ ka } \frac{1}{3} \text{ ayaa xardhan}$$

Waxa shaxannada sare ay muujinayaan in

$$\frac{1}{2} \text{ ka } \frac{1}{3} = \frac{1}{6}$$

Haddaba,  $\frac{1}{2} \times \frac{1}{3} = \frac{1}{6}$  Sababta oo ah  $1 \times 1 = 1$  iyo  $2 \times 3 = 6$

Sidaasi awgeed,  $\frac{1}{2} \times \frac{1}{3} = \frac{1 \times 1}{2 \times 3} = \frac{1}{6}$

Layli: \_\_\_\_\_

1. Buuxi meelaha bannaan

(b)  $\frac{1}{5} \times \frac{1}{6} = \frac{1 \times 1}{5 \times 6} = \frac{1}{30}$

(t)  $\frac{1}{7} \times \frac{1}{9} = \frac{\square \times \square}{7 \times 9} = \frac{\square}{\square}$

(j)  $\frac{1}{8} \times \frac{1}{12} = \frac{\square \times \square}{\square \times \square} = \frac{\square}{\square}$

(x)  $\frac{1}{10} \times \frac{1}{37} = \frac{\square}{\square \times \square} = \frac{\square}{\square}$

2. Raadi taranka

(b)  $\frac{1}{15} \times \frac{1}{2}$

(t)  $\frac{1}{30} \times \frac{1}{5}$

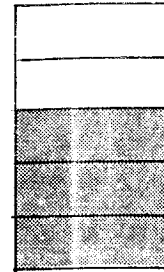
(j)  $\frac{1}{8} \times \frac{1}{9}$

(x)  $\frac{1}{20} \times \frac{1}{5}$

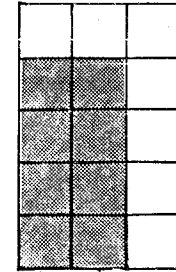
(kh)  $\frac{1}{5} \times \frac{1}{6}$

(d)  $\frac{1}{4} \times \frac{1}{9}$

Fiiri shaxannada hoose



$$\frac{3}{5} \text{ ayaa xardhan}$$



$$\frac{2}{3} \text{ ka } \frac{4}{5} \text{ ayaa xardhan}$$

Shaxannada sare waxa ay muujinayaan in

$$\frac{2}{3} \text{ ka } \frac{4}{5} = \frac{8}{15}$$

Hase yeeshee,  $\frac{2}{3} \times \frac{4}{5} = \frac{2 \times 4}{3 \times 5} = \frac{8}{15}$

Marka laba jajab oo caadiya la isku dhufanayo, waxa la isku dhufaa sarreeyayaasha labada jajab, dabadeedna hooseeyayaashooda.

Layli: \_\_\_\_\_

1. Buuxi meelaha bannaan.

(b)  $\frac{1}{3} \times \frac{4}{7} = \frac{\square \times \square}{3 \times 7} = \frac{4}{21}$

(t)  $\frac{3}{8} \times \frac{3}{5} = \frac{3 \times 3}{\square \times \square} = \frac{9}{40}$

(j)  $\frac{2}{5} \times \frac{4}{9} = \frac{\square \times \square}{\square \times \square} = \frac{\square}{\square}$

2. Raadi taranka

(b)  $\frac{3}{5} \times \frac{1}{2}$

(t)  $\frac{6}{11} \times \frac{3}{5}$

(j)  $\frac{4}{9} \times \frac{6}{7}$

(x)  $\frac{5}{3} \times \frac{3}{2}$

(k.n)  $\frac{4}{11} \times \frac{1}{9}$

(d)  $\frac{5}{12} \times \frac{5}{9}$

## 20.2 Iskudhufashada tirooyin dhafan

Marka aynu isku dhufanayno tiro dhafan iyo jajab ama laba tiro oo dhan, tirooyinka dhafan ayaan marka hore u rogeynaa jajab maqummane, dabadeedna, waynu isku dhufanaynaa.

### Tusaalooyin

$$(1) \frac{1}{3} \times 5 \frac{1}{2} = \frac{1}{3} \times \frac{11}{2} = \frac{1 \times 11}{3 \times 2} = \frac{11}{6}$$

$$(2) 7 \frac{1}{2} \times 6 \frac{2}{3} = \frac{15}{2} \times \frac{20}{3} = \frac{15 \times 20}{2 \times 3} = \frac{300}{6} = 50$$

$$(3) 1 \frac{1}{3} \times 2 \frac{1}{2} = \frac{4}{3} \times \frac{5}{2} = \frac{4 \times 5}{3 \times 2} = \frac{20}{6} = 3 \frac{2}{6}$$

### Layli:

Isku dhufo, isla markaana fududee marka ay suura-gal tahay.

$$(1) \frac{2}{3} \times 4 \frac{1}{2}$$

$$(2) 6 \frac{2}{3} \times 4 \frac{1}{4}$$

$$(3) 9 \frac{3}{8} \times \frac{3}{4}$$

$$(4) 3 \frac{1}{8} \times 4 \frac{3}{7}$$

$$(5) \frac{4}{5} \times 6 \frac{1}{4}$$

$$(6) 8 \frac{2}{3} \times 6 \frac{5}{6}$$

$$(7) 8 \frac{1}{3} \times \frac{2}{5}$$

$$(8) 3 \frac{1}{5} \times 4 \frac{3}{4}$$

$$(9) 7 \frac{4}{5} \times \frac{5}{6}$$

$$(10) \frac{4}{5} \times 7 \frac{3}{8}$$

$$(11) 7 \frac{5}{6} \times 3 \frac{2}{3}$$

$$(12) 6 \frac{2}{3} \times 3 \frac{7}{8}$$

$$(13) 6 \frac{3}{4} \times 5 \frac{2}{9}$$

$$(14) \frac{3}{4} \times 5 \frac{2}{3}$$

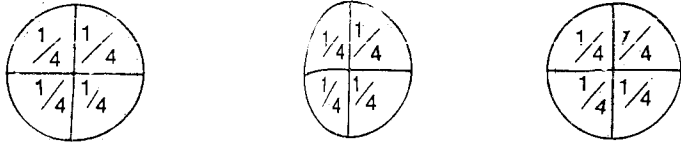
$$(15) 3 \frac{4}{5} \times 1 \frac{2}{5}$$

$$(15) 3 \frac{4}{5} \times 1 \frac{2}{5}$$

## MAS'ALOOYIN

- Cali waxa uu xisaabta bartaa saacad  $1\frac{1}{2}$ keed maalin walba. Immisa saacadood ayuu xisaab bartay muddo 6 maalmood ah?
- Nuur waxa uu haystaa 12 xabbo oo rooti ah Waxa uu Aamina siiyey  $\frac{2}{3}$  ka mid ah rootiga. Immisa rooti ayuu siiyey Aamina?
- Sucaado waxa aya cuntaa  $1 \frac{2}{7}$  mafafaay (babaay) an maalin walba. Immisa xabbo oo mafafaay ah ayaa ay cuni kartaa toddo-badii maalmood?
- Harqaanle ayaa isticmaalay  $3 \frac{3}{5}$  mitir oo dhar ah si uu uga sameeyo hal cambuur (toob). Immisa mitir oo dhar ah ayaa loo baahanayaa si loo sameeyo 10 cambuur?
- Saciid waxa uu haystaa  $7 \frac{1}{2}$  gobol oo alwaax ah, haddii dhererka gobalkii keli ahi yahay  $7\frac{1}{10}$  mitir. Waa immisa dhererka dhammaan goballadan?
- Celceliska orodka ciyaartoy ka qayb galay tartan ayaa ahaa  $15 \frac{3}{4}$  km saacaddii. Immisa kiilomitir buu jarayaa ciyaartoygaasi  $2 \frac{2}{7}$  saacadood?

Saddex goobo ayaa middiiba loo qaybiyey 4 qaybood oo isle'eg.



Immisa rubuc (1/4) ayaa ku jira 3da goobo?

$$3 \div \frac{1}{4} = 3 \times \frac{4}{1} = 12$$

Marka tiro idil jajab loo qaybinayo, kala rog jajabka qaybshaha ah, dabadeedna isku dhufo.

Marka jajab tiro idil loo qaybinayo, kala rog tirada idil ee qaybshaha ah, dabadeedna isku dhufo.

$$\text{Sida } \frac{1}{3} \div 2 = \frac{1}{3} \times \frac{1}{2} = \frac{1}{6}$$

$$\frac{4}{5} \div 16 = \frac{4}{5} \times \frac{1}{16} = \frac{4}{80} = \frac{1}{20}$$

Layli: \_\_\_\_\_

Isuqaybi oo isku jar jar

(1)  $\frac{2}{3} \div 4$

(2)  $4 \div \frac{1}{8}$

(3)  $2 \div \frac{1}{9}$

(4)  $8 \div \frac{1}{3}$

(5)  $\frac{4}{7} \div 6$

(6)  $8 \div \frac{4}{5}$

(7)  $\frac{3}{10} \div 4$

(8)  $3 \div \frac{5}{6}$

(9)  $\frac{3}{5} \div 8$

U fiirso shaxankan

Immisa  $\frac{1}{6}$  ayaa ku jira  $\frac{1}{3}$  ?

Marka  $\frac{1}{3} \div \frac{1}{6}$  ma le'eg tahay 2?

Waxa aan arkaynaa in marka

1					
$\frac{1}{3}$		$\frac{1}{3}$		$\frac{1}{3}$	
$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$			

$$\frac{1}{3} \div \frac{1}{6} = \frac{1}{3} \times \frac{6}{1} = \frac{6}{3} = 2$$

Marka laba jajab la isu qaybinayo waxa la kala roгаа jajabka qaybshaha ah, dabadeedna waa laysku dhuftaa.

Layli: \_\_\_\_\_

Raadi qaybta

(1)  $\frac{3}{8} \div \frac{1}{4}$

(2)  $\frac{5}{6} \div \frac{1}{3}$

(3)  $\frac{2}{3} \div \frac{1}{2}$

(4)  $\frac{5}{8} \div \frac{1}{6}$

(5)  $\frac{1}{3} \div \frac{4}{5}$

(6)  $\frac{3}{8} \div \frac{3}{4}$

(7)  $\frac{5}{9} \div \frac{1}{3}$

(8)  $\frac{11}{12} \div \frac{3}{10}$

(9)  $\frac{7}{12} \div \frac{2}{3}$

(10)  $\frac{1}{2} \div \frac{1}{4}$

(11)  $\frac{3}{4} \div \frac{1}{5}$

(12)  $\frac{9}{10} \div \frac{1}{6}$

(13)  $\frac{7}{10} \div \frac{4}{5}$

(14)  $\frac{5}{6} \div \frac{3}{2}$

(15)  $\frac{1}{8} \div \frac{3}{4}$

## 20.6 Isuqaybinta tiro idil iyo tiro dhafan

Marka aynu tiro idil iyo jajab isu qaybinayno tirada dhafan waxa loo beddelaa jajab ma-qummane, dabadeedna inta la kala rogo qaybs-haha ayaa la isku dhufaa.

**Tusaale:**

$$1. 6 \div 1 \frac{1}{2} = 6 \div \frac{3}{2} = 6 \times \frac{2}{3} = \frac{12}{3} = 4$$

$$2. 5 \div 1 \frac{1}{3} = 5 \div \frac{4}{3} = 5 \times \frac{3}{4} = \frac{15}{4} = 3 \frac{3}{4}$$

$$3. 3 \frac{1}{3} \div 2 = \frac{10}{3} \div 2 = \frac{10}{3} \times \frac{1}{2} = \frac{10}{6} = \frac{5}{3} = 1 \frac{2}{3}$$

**Layli:**

Raadi qaybta

$$(1) 4 \div 1 \frac{1}{3}$$

$$(2) 4 \frac{2}{3} \div 2$$

$$(3) 8 \div 2 \frac{1}{2}$$

$$(4) 7 \frac{3}{5} \div 10$$

$$(5) 5 \div 2 \frac{1}{7}$$

$$(6) 3 \frac{4}{8} \div 2$$

$$(7) 23 \div 2 \frac{1}{11}$$

$$(8) 20 \frac{2}{3} \div 16$$

$$(9) 10 \div 3 \frac{4}{5}$$

$$(10) 6 \div 8 \frac{3}{4}$$

$$(11) 17 \div 2 \frac{5}{6}$$

$$(12) 14 \frac{1}{8} \div 3$$

$$(13) 2 \div 3 \frac{1}{2}$$

$$(14) 1 \frac{7}{8} \div 4$$

$$(15) 12 \div 4 \frac{3}{4}$$

Marka aynu tiro dhafan u qaybinayno jajab, tirada dhafan u beddel jajab ma-qummane, qaybs-haha kala rogo, dabadeedna isku dhufo.

**Tusaale:**

$$1) \frac{1}{2} \div 4 \frac{1}{2} = \frac{1}{2} \div \frac{9}{2} = \frac{1}{2} \times \frac{2}{9} = \frac{2}{18} = \frac{1}{9}$$

$$2) \frac{2}{3} \div 3 \frac{2}{5} = \frac{2}{3} \div \frac{17}{5} = \frac{2}{3} \times \frac{5}{17} = \frac{10}{51}$$

$$3) 4 \frac{1}{2} \div \frac{1}{2} = \frac{9}{2} \div \frac{1}{2} = \frac{9}{2} \times \frac{2}{1} = \frac{18}{2} = 9$$

$$4) 5 \frac{3}{4} \div \frac{3}{4} = \frac{23}{4} \times \frac{4}{3} = \frac{23}{3} = 7 \frac{2}{3}$$

**Layli:**

Raadi qaybta:

$$1) 3 \frac{1}{2} \div \frac{1}{2} \quad 2) \frac{1}{6} \div 2 \frac{1}{3} \quad 3) 2 \frac{1}{8} \div \frac{1}{8}$$

$$4) \frac{8}{11} \div 2 \frac{2}{3} \quad 5) 2 \frac{2}{3} \div \frac{3}{4} \quad 6) \frac{1}{3} \div 1 \frac{1}{3}$$

$$7) 4 \frac{1}{2} \div \frac{5}{6} \quad 8) \frac{5}{9} \div 1 \frac{2}{3} \quad 9) 10 \frac{3}{5} \div \frac{1}{3}$$

$$10) \frac{7}{8} \div 1 \frac{5}{7} \quad 11) 3 \frac{4}{4} \div \frac{3}{10} \quad 12) \frac{3}{8} \div 2 \frac{5}{6}$$

$$13) 4 \frac{1}{3} \div \frac{1}{3} \quad 14) 3 \frac{1}{3} \div \frac{1}{2} \quad 15) \frac{3}{4} \div 5 \frac{1}{4}$$

Marka tirooyin dhafan la isu qaybinayo, marka hore waxa aynu u beddelnaa jajab ma-qummaneyaal. Dabadeedna, waxa aynu kala rognaa qaybshaha markaasi ayaynu isku dhufanna.

Tusaale:

$$1) 3 \frac{3}{4} \div 1 \frac{1}{4} = \frac{15}{4} \div \frac{5}{4} = \frac{15}{4} \times \frac{4}{5} = 3$$

$$2) 6 \frac{1}{2} \div 1 \frac{1}{2} = \frac{13}{2} \div \frac{3}{2} = \frac{13}{2} \times \frac{2}{3} = \frac{13}{3} = 4 \frac{1}{3}$$

$$3) 5 \frac{1}{3} \div 2 \frac{3}{4} = \frac{16}{3} \div \frac{11}{4} = \frac{16}{3} \times \frac{4}{11} = \frac{64}{33} = 1 \frac{31}{33}$$

Layli:

Raadi qaybta:

$$1) 3 \frac{1}{3} \div 4 \frac{1}{6} \quad 2) 6 \frac{2}{3} \div 8 \frac{1}{3} \quad 3) 11 \frac{1}{4} \div 4 \frac{1}{2}$$

$$4) 5 \frac{1}{4} \div 1 \frac{3}{4} \quad 5) 2 \frac{5}{8} \div 1 \frac{3}{4} \quad 6) 2 \frac{4}{5} \div 1 \frac{1}{2}$$

$$7) 9 \frac{1}{7} \div 2 \frac{1}{3} \quad 8) 9 \frac{7}{8} \div 2 \frac{3}{4} \quad 9) 6 \frac{1}{6} \div 2 \frac{1}{5}$$

$$10) 5 \frac{5}{6} \div 16 \frac{1}{4} \quad 11) 2 \frac{1}{2} \div 3 \frac{1}{5} \quad 12) 3 \frac{3}{5} \div 2 \frac{1}{4}$$

$$13) 5 \frac{5}{6} \div 1 \frac{5}{9} \quad 14) 5 \frac{1}{4} \div 5 \frac{1}{2} \quad 15) 7 \frac{3}{4} \div 8 \frac{5}{7}$$

### MAS'ALOOYIN

- Saynab hooyadeed ayaa 3 xabbo oo muus ah mid kasta u qaybisay laba meelood oo isle'eg. Haddii ay carruurteedii qof walba siisay  $\frac{1}{2}$  muus ah. Immisa qof ayaa ay muuskii siisay?
- Bile waxa uu haystaa xarig dhererkiisu yahay 6 mitir. Waxa uu doonayaa in uu xarigga u qaybiyo meelo ay meeshiiba tahay  $1 \frac{1}{2}$  mitir. Haddaba, immisa meelood ayaa uu Bile heli karaa?
- Cali waxa uu haystaa  $\frac{3}{4}$  doolshe (Keeg) ah. Immisa qof ayaa uu wax siin karaa, haddii uu qofkiiba siiyo  $\frac{1}{8}$  oo doolshe ah
- Jaamac ayaa muddo  $4 \frac{1}{2}$  daqiiqo ah socday  $\frac{1}{2}$  Km. Immisa ayuu socday halkii daqiiqo?
- Beer dhererkeedu yahay  $4 \frac{1}{2}$  mitir. 1 ayaa loo qaybiyey dhawr meelood oo meeshiiba tahay  $\frac{1}{2}$  mitir. Immisa meelod ayaa loo qaybiyey beertii?
- Faadumo waxa ay haysatay maro ay qiyaasteedu tahay  $4 \frac{1}{2}$  mitir. Haddii ay maradii u qaybisay 6 miis, miiskilba maro intee ayaa uu helayaa?



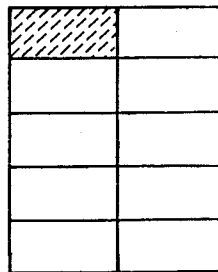
## 21.4 Barashada jajab tobanle

Laydigan waxa loo qaybiyey 10 meelood oo isle'eg.

Laydiga waxa uu u qaybsan yahay tobneed.

Hal tobneed ayaa xardhan.

Jajabka xardhani waa  $\frac{1}{10}$  ama 0.1



Saddex tobneed ( $\frac{3}{10}$ ) ayaa ka xardhan goobada.

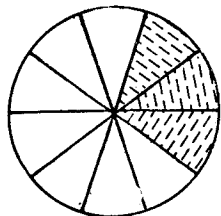
Saddex tobneed, jajab tobanle ahaan waxa ay u

qormaysaa 0.3. Toddoba tobneed  $\frac{7}{10}$  ayaa

aanan goobada ka xardhanayn. Toddoba

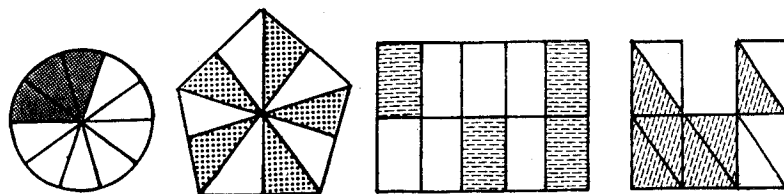
tobneed, jajab tobanle ahaan waxa ay u

qormeysaa 0.7



Layli: \_\_\_\_\_

Shaxannadan waxa loo qaybiyey tobneed.



1. Jajab tobanle ahaan u qor qaybaha xardhan ee shaxan kasta.

2. Jajab tobanle ahaan u qor qaybaha aan xardhanayn ee shaxan kasta.

3. U qor jajab tobanle: (b)  $\frac{4}{10}$  (t)  $\frac{5}{10}$  (j)  $\frac{8}{10}$

(x) Laba tobneed (kh) Lix tobneed

4. Su'aasha 3aad, jawaabtee ayaa la mid ah  $\frac{1}{2}$  ?

## Barashada jajab tobanle

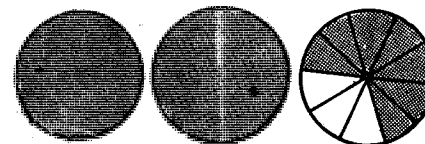
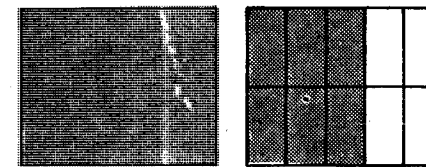
## 21.5

Shaxannadan waxa xardhan hal

idil iyo lix tobneed sansaan

tobanle ahaan, waxa loo qori

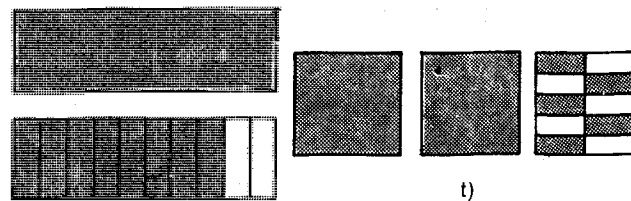
karaa 1.6



goobooyinkan waxa xardhan 2.7

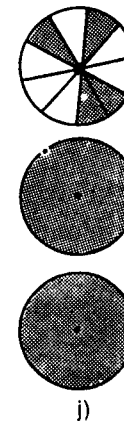
Layli: \_\_\_\_\_

1. U qor sansaan tobanle, inta xardhan ee shaxannada



b)

t)



j)

2. U qor sansaanka tobanle

b)  $1 \frac{1}{10}$  t)  $3 \frac{2}{10}$  j)  $4 \frac{9}{10}$

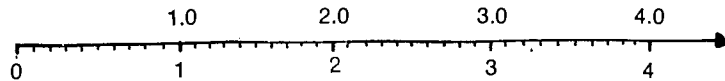
x) Laba iyo toddoba tobneed.

kh) hal iyo lix tobneed

d) saddex iyo saddex tobneed.

r) Shan iyo shan tobneed.

Xariiqdan tiro, waxa ay muujinaysaa koowaadyo iyo tobneedyo.

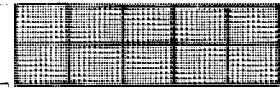


- 1 Koowaad = 1.0 = 10 tobneed.
- 1.4 = 1 Koowaad iyo 4 tobneed = 14 tobneed.
- 25 tobneed = 20 tobneed + 5 tobneed  
= 2 koowaad iyo 5 tobneed = 2.5
- 2 tobnaad, 3 koowaad iyo 6 tobneed = 23.6

Layli: \_\_\_\_\_

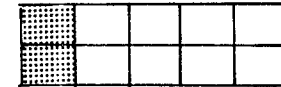
- 1. U qor tobneedyo
  - b) 2 koowaad    t) 3 koowaad    j) 4 koowaad    x) 5 koowaad
- 2) U qor tobneedyo
  - b) 1.6    t) 1.8    j) 2.0    x) 2.7    kh) 3.5
- 3) U qor sansaan tobanle
  - b) 24 tobneed    t) 63 tobneed    j) 18 tobneed    x) 70 tobneed.
- 4) U qor sansaan tobanle
  - b) 1 koowaad iyo 4 tobneed.                      t) 3 koowaad iyo 6 tobneed.
  - j) 5 tobnaad    9 koowaad iyo 2 tobneed.
- 5) U qor si horsan adiga oo ka bilaabanaya kan ugu yar:
  - 0.2,    1.4,    1.8,    1.1,    0.1,    2.0,    1.5,

Shaxannadan inta xardhani waa  $\frac{12}{10}$ ,



taasi oo loo kala saari karo  $\frac{10}{10} + \frac{2}{10}$

Waxa aan ognahay in:



$$\frac{10}{10} = 1.0 ; \frac{2}{10} = 0.2$$

$$\begin{aligned} \text{Markaa } \frac{12}{10} &= \frac{10}{10} + \frac{2}{10} \\ &= 1.0 + 0.2 \\ &= 1.2 \end{aligned}$$

Layli: \_\_\_\_\_

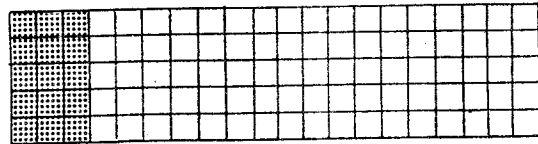
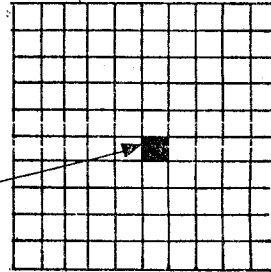
Buuxi meelaha bannaan.

- 1)  $\frac{15}{10} = \frac{\square}{10} + \frac{\square}{10}$
- 2)  $\frac{17}{10} = 1.0 + \square$
- 3)  $\frac{29}{10} = \square + 0.9$
- 4)  $\frac{11}{10} = \square + 0.1$
- 5)  $2.6 = \square + 0.6$
- 6)  $\frac{28}{10} = \frac{\square}{10} + \frac{\square}{10}$
- 7)  $4.2 = 4.0 + \square$
- 8)  $\frac{16}{10} + \frac{\square}{10} = \frac{\square}{10}$
- 9)  $\frac{23}{10} = 2.0 + \square$
- 10)  $\frac{35}{10} = \frac{\square}{10} + \frac{\square}{10}$
- 11)  $4.7 = \square + 0.7$
- 12)  $\frac{13}{10} = 1.0 + \square$

## 22.2 Barashada boqoleed

Labajibbaaranahan waxa loo qaybiyey boqol meelood oo isle'eg.

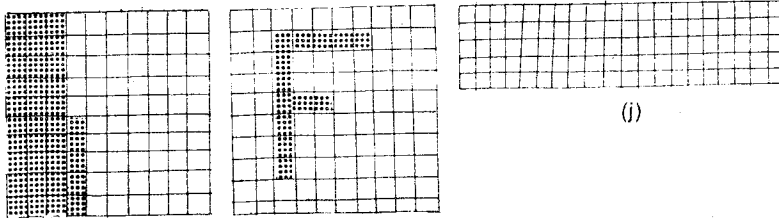
Labajibbaarane yar oo kastaa waa  $\frac{1}{100}$  ka labajibbaaraha weyn. Sansaan tobanle ahaan  $\frac{1}{100}$  waxa loo qoraa 0.01



Laydigan waxa loo qaybiyey boqol meelood oo isle'eg. 15 boqoleed ayaa xardhan. Inta xardhan waa  $\frac{15}{100}$  ama 0.15.

Layli: \_\_\_\_\_

Shaxannadan waxa loo qaybiyey boqoleedyo



(b)

(t)

(j)

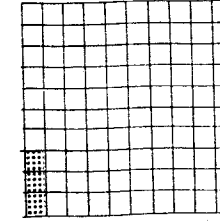
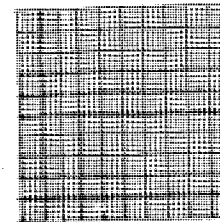
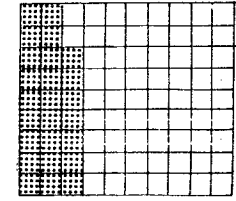
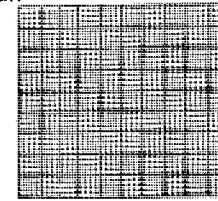
- U qor sansaan tobanle, qaybaha xardhan ee shaxan kasta.
- U qor sansaan tobanle, qaybaha aan xardhanayn ee shaxan kasta.
- U qor sansaan tobanle
 

b) $\frac{3}{100}$	t) $\frac{87}{100}$	j) $\frac{17}{100}$
x) $\frac{8}{100}$	kh) $\frac{31}{100}$	d) toban boqoleed
		r) 7 boqoleed

## Barashada tiro idil iyo boqoleed

Shaxannadan waxa xardhan

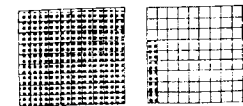
hal idil iyo 28 boqoleed, sansaan, tobanle ahaan  $1\frac{28}{100}$  waxa loo qori karaa 1.28.



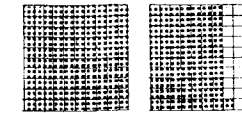
Labajibbaaranayaashan waxa loo qaybiyey boqol meelood oo isle'eg waxana xardhan 1 idil iyo 3 boqoleed. Sansaan tobanlaha  $1\frac{3}{100}$  waa 1.03.

Layli: \_\_\_\_\_

- U qor sansaan tobanle, inta xardhan ee shaxannada (b), (t) iyo (j)



(b)



(t)

(j)

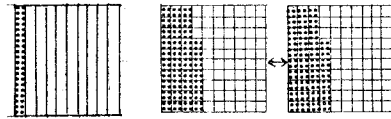
- U qor sansaan tobanle:

- |                      |                      |                     |                       |                       |
|----------------------|----------------------|---------------------|-----------------------|-----------------------|
| b) $8\frac{11}{100}$ | t) $2\frac{99}{100}$ | j) $1\frac{3}{100}$ | x) $30\frac{17}{100}$ | kh) $50\frac{5}{100}$ |
|----------------------|----------------------|---------------------|-----------------------|-----------------------|
- Shan iyo toban iyo laba boqoleed.
  - Toban iyo siddeed iyo afar boqoleed
  - Soddon iyo saddex iyo toban iyo toddoba boqoleed.

Qaybta xardhani.

waa hal tobneed.

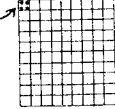
(0.1)



Qaybta xardhani

waa hal boqoleed

0.01



37 boqoleed (0.37)    3 tobneed iyo 7 boqoleed (0.3 + 0.07)

Layli:

1.  $0.49 = 49$  boqoleed = 4 tobneed iyo 9 boqoleed.

U qor sidaasi oo kale:

0.37, 0.51, 0.19, 0.70, 0.08, 0.85, 0.33

2.  $7$  boqoleed iyo  $2$  boqoleed =  $72$  boqoleed =  $0.72$

U qor sansaan tobanle: 3 tobneed iyo 4 boqoleed, 6 tobneed iyo 5 boqoleed, 0 tobneed iyo boqoleed, 1 tobneed iyo 7 boqoleed, 7 tobneed iyo 7 boqoleed.

3.  $0.53 = 5$  tobneed iyo 3 boqoleed =  $0.5 + 0.03$

U qor sidaasi oo kale:

0.16, 0.97, 0.44, 0.51, 0.25, 0.38, 0.83.

4. 2 koowaad, 3 tobneed iyo 7 boqoleed, sansaan tobanle ahaan waxa loo qoraa 2.37.

U qor sansaan tobanle:

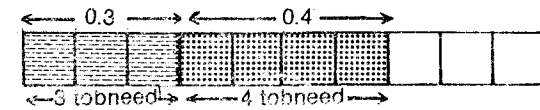
5 koowaad, 3 tobneed, iyo 7 boqoleed.

7 tobnaad! 1 koowaad, 5 tobneed iyo 3 boqoleed

4 tobnaad, 0 koowaad 3 tobneed iyo 4 boqoleed

3 kumaad, 2 boqolaad, 1 tobnaad, 0 koowaad, 1 tobneed iyo 2 boqoleed.

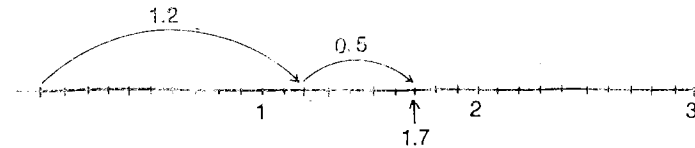
Filiri shaxannada hoose



0.3 → 3 tobneed

0.4 → 4 tobneed

0.7 ← 7 tobneed



1.2 → 1 koowaad iyo 2 tobneed

0.5 → + 5 tobneed

1.7 1 koowaad iyo 7 tobneed

Layli:

B) Raadi wadarta

- |                      |                      |                      |                      |                       |
|----------------------|----------------------|----------------------|----------------------|-----------------------|
| 1) $\frac{0.1}{0.5}$ | 2) $\frac{0.5}{0.3}$ | 3) $\frac{0.7}{0.2}$ | 4) $\frac{0.4}{0.6}$ | 5) $\frac{0.3}{0.1}$  |
| 6) $\frac{1.4}{0.5}$ | 7) $\frac{2.1}{0.7}$ | 8) $\frac{3.4}{1.2}$ | 9) $\frac{2.3}{3.2}$ | 10) $\frac{1.2}{3.0}$ |

1)  $9$  tobneed +  $4$  tobneed =  $13$  tobneed =  $1.3$

Sidaasi oo kale uga shaqee layliyada hoose.

1.  $6$  tobneed +  $5$  tobneed
2.  $3$  tobneed +  $7$  tobneed
3.  $8$  tobneed +  $3$  tobneed
4.  $7$  tobneed +  $5$  tobneed
5.  $9$  tobneed +  $8$  tobneed
6.  $4$  tobneed +  $9$  tobneed

Marka la isugeynayo tirooyin koobaya jajab tobanle, waxa la isugu geeyaa sida tirooyinka idil oo kale.

Tusaale:

$$1) \quad 0.4 \longrightarrow 4 \text{ tobneed}$$

$$+ \quad \underline{0.2} \longrightarrow 2 \text{ tobneed}$$

$$0.6 \longleftarrow 6 \text{ tobneed}$$

$$2) \quad 4.3 \longrightarrow 4 \text{ koowaad iyo } 3 \text{ tobneed}$$

$$+ \quad \underline{0.5} \longrightarrow 5 \text{ tobneed}$$

$$4.8 \longleftarrow 4 \text{ koowaad iyo } 8 \text{ tobneed}$$

Layli:

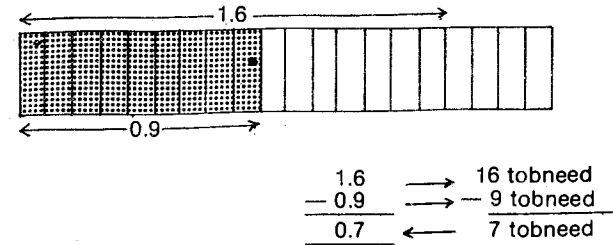
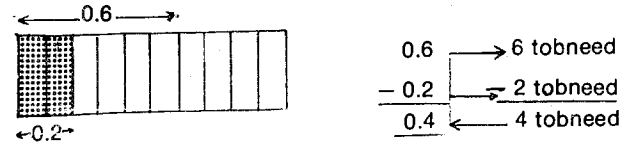
Raadi wadarta:

$$1) \quad \begin{array}{r} 0.7 \\ \underline{0.6} \end{array} \quad 2) \quad \begin{array}{r} 0.8 \\ \underline{0.8} \end{array} \quad 3) \quad \begin{array}{r} 0.5 \\ \underline{0.6} \end{array} \quad 4) \quad \begin{array}{r} 0.5 \\ \underline{0.9} \end{array}$$

$$5) \quad \begin{array}{r} 1.7 \\ \underline{0.6} \end{array} \quad 6) \quad \begin{array}{r} 3.4 \\ \underline{0.5} \end{array} \quad 7) \quad \begin{array}{r} 4.1 \\ \underline{0.8} \end{array} \quad 8) \quad \begin{array}{r} 5.9 \\ \underline{0.7} \end{array}$$

$$9) \quad \begin{array}{r} 2.3 \\ \underline{4.6} \end{array} \quad 10) \quad \begin{array}{r} 3.7 \\ \underline{2.2} \end{array} \quad 11) \quad \begin{array}{r} 6.1 \\ \underline{4.2} \end{array} \quad 12) \quad \begin{array}{r} 3.4 \\ \underline{4.8} \end{array}$$

$$13) \quad \begin{array}{r} 4.1 \\ 2.7 \\ + 6.5 \end{array} \quad 14) \quad \begin{array}{r} 3.8 \\ 4.5 \\ + 2.4 \end{array} \quad 15) \quad \begin{array}{r} 3.2 \\ 2.5 \\ + 3.3 \end{array} \quad 16) \quad \begin{array}{r} 9.1 \\ 5.6 \\ + 5.3 \end{array}$$



Layli:

1. Raadi faraqa

$$(b) \quad \begin{array}{r} 0.9 \\ \underline{-0.3} \end{array} \quad (t) \quad \begin{array}{r} 0.6 \\ \underline{-0.5} \end{array} \quad (j) \quad \begin{array}{r} 5.8 \\ \underline{-1.6} \end{array} \quad (x) \quad \begin{array}{r} 29.9 \\ \underline{-16.2} \end{array}$$

$$(kh) \quad \begin{array}{r} 1.3 \\ \underline{-0.8} \end{array} \quad (d) \quad \begin{array}{r} 1.5 \\ \underline{-0.6} \end{array} \quad (r) \quad \begin{array}{r} 1.0 \\ \underline{-0.4} \end{array} \quad (s) \quad \begin{array}{r} 1.7 \\ \underline{-0.9} \end{array}$$

$$(sh) \quad 0.7 - 0.4 \quad (dh) \quad 4.8 - 2.5 \quad (c) \quad 5.1 - 3.0$$

$$(g) \quad 1.6 - 0.7 \quad (f) \quad 1.6 - 0.7 \quad (q) \quad 1.4 - 0.6$$

$$2. \quad 9 \text{ tobneed} - 5 \text{ tobneed} = 4 \text{ tobneed} = 0.4$$

Sidaas oo kale uga shaqee layliyadan hoose:

$$(b) \quad 97 \text{ tobneed} - 25 \text{ tobneed} \quad (t) \quad 8 \text{ tobneed} - 2 \text{ tobneed}$$

$$(j) \quad 78 \text{ tobneed} - 74 \text{ tobneed} \quad (x) \quad 17 \text{ tobneed} - 12 \text{ tobneed}$$

$$(kh) \quad 56 \text{ tobneed} - 28 \text{ tobneed} \quad (d) \quad 18 \text{ tobneea} - 9 \text{ tobneed}$$

Tusaale

4.2 = 4 koowaad iyo 2 tobneed →



4.2 = 3 koowaad iyo 12 tobneed →



4.2 → 3 koowaad iyo 12 tobneed  
 -1.7 → -1 koowaad iyo 7 tobneed  
2.5 ← 2 koowaad iyo 5 tobneed

Layli: \_\_\_\_\_

Raadi faraqa

(1)  $\begin{array}{r} 4.2 \\ - 1.6 \\ \hline \end{array}$     (2)  $\begin{array}{r} 5.1 \\ - 0.8 \\ \hline \end{array}$     (3)  $\begin{array}{r} 4.2 \\ - 1.3 \\ \hline \end{array}$     (4)  $\begin{array}{r} 6.2 \\ - 4.6 \\ \hline \end{array}$

(5)  $\begin{array}{r} 9.3 \\ - 7.5 \\ \hline \end{array}$     (6)  $\begin{array}{r} 4.2 \\ - 0.9 \\ \hline \end{array}$     (7)  $\begin{array}{r} 15.6 \\ - 1.8 \\ \hline \end{array}$     (8)  $\begin{array}{r} 6.1 \\ - 0.3 \\ \hline \end{array}$

(9)  $\begin{array}{r} 2.9 \\ - 0.7 \\ \hline \end{array}$     (10)  $\begin{array}{r} 5.2 \\ - 3.5 \\ \hline \end{array}$     (11)  $\begin{array}{r} 19.8 \\ - 6.9 \\ \hline \end{array}$     (12)  $\begin{array}{r} 7.0 \\ - 2.4 \\ \hline \end{array}$

(13)  $\begin{array}{r} 18.0 \\ - 7.1 \\ \hline \end{array}$     (14)  $\begin{array}{r} 14.2 \\ - 8.5 \\ \hline \end{array}$     (15)  $\begin{array}{r} 12.3 \\ - 8.9 \\ \hline \end{array}$     (16)  $\begin{array}{r} 13.0 \\ - 5.3 \\ \hline \end{array}$

(17)  $\begin{array}{r} 15.4 \\ - 7.9 \\ \hline \end{array}$     (18)  $\begin{array}{r} 17.5 \\ - 8.9 \\ \hline \end{array}$     (19)  $\begin{array}{r} 18.0 \\ - 9.1 \\ \hline \end{array}$     (20)  $\begin{array}{r} 16.7 \\ - 7.8 \\ \hline \end{array}$

0.43 → 4 tobneed iyo 3 boqleed  
+ 0.26 → 2 tobneed iyo 6 boqleed  
 0.69 ← 6 tobneed iyo 9 boqleed

Layli: \_\_\_\_\_

1. Raadi wadarta

	0.33		
(b) 0.42	(t) 28.32	(j) 0.14	(x) 0.14
<u>+ 0.37</u>	<u>+ 13.40</u>	<u>+ 0.61</u>	<u>+ 0.50</u>

(kh) 0.19	(d) 2.18	(r) 0.34	(s) 0.14
<u>+ 0.65</u>	<u>+ 3.14</u>	<u>+ 0.18</u>	<u>+ 0.02</u>
		<u>+ 0.25</u>	<u>0.46</u>

2. 7 boqled + 5 boqleed = 12 boqleed = 1 tobneed iyo 2 boqleed.

Sidaas oo kale uga shaqee layliyadan hoose.

(b) 8 boqleed + 6 boqleed      (t) 5 boqleed + 9 boqleed

(j) 9 boqleed + 9 boqleed      (x) 3 boqleed + 7 boqleed

(kh) 4 boqleed + 8 boqleed      (d) 5 boqleed + 5 boqleed

$$\begin{array}{r} 0.76 \longrightarrow 7 \text{ tobneed iyo 6 boqleed} \\ - 0.32 \longrightarrow - 3 \text{ tobneed iyo 2 boqleed} \\ \hline 0.44 \longleftarrow 4 \text{ tobneed iyo 4 boqleed} \end{array}$$

$$\begin{array}{r} 0.42 \longrightarrow 4 \text{ tobneed iyo 2 boqleed} \longrightarrow 3 \text{ tobneed iyo 12 boqleed} \\ - 0.25 \longrightarrow - 2 \text{ tobneed iyo 5 boqleed} \\ \hline 1 \text{ tobneed iyo 7 boqleed} \end{array}$$

Layli: \_\_\_\_\_

1. Raadi faraaqa

$$\begin{array}{r} \text{(b)} \quad 0.78 \quad \text{(t)} \quad 0.99 \quad \text{(j)} \quad 3.87 \quad \text{(x)} \quad 9.85 \\ \quad \underline{- 0.52} \quad \quad \underline{- 0.16} \quad \quad \underline{- 2.77} \quad \quad \underline{- 5.81} \end{array}$$

$$\begin{array}{r} \text{(kh)} \quad 17.38 \quad \text{(d)} \quad 43.47 \quad \text{(r)} \quad 60.78 \quad \text{(s)} \quad 150.75 \\ \quad \underline{- 8.14} \quad \quad \underline{- 21.42} \quad \quad \underline{- 32.78} \quad \quad \underline{- 68.71} \end{array}$$

$$\begin{array}{r} \text{(sh)} \quad 0.45 \quad \text{(dh)} \quad 0.93 \quad \text{(c)} \quad 7.91 \quad \text{(g)} \quad 4.23 \\ \quad \underline{- 0.18} \quad \quad \underline{- 0.65} \quad \quad \underline{- 3.64} \quad \quad \underline{- 2.86} \end{array}$$

$$\begin{array}{r} \text{(f)} \quad 28.30 \quad \text{(q)} \quad 132.03 \quad \text{(k)} \quad 0.60 \quad \text{(l)} \quad 44.22 \\ \quad \underline{- 17.68} \quad \quad \underline{- 34.17} \quad \quad \underline{- 0.21} \quad \quad \underline{- 12.02} \end{array}$$

$$\begin{array}{r} \text{(m)} \quad 15.02 \quad \text{(n)} \quad 0.81 \quad \text{(w)} \quad 16.22 \quad \text{(h)} \quad 18.88 \\ \quad \underline{- 2.20} \quad \quad \underline{- 0.25} \quad \quad \underline{- 10.16} \quad \quad \underline{- 11.79} \end{array}$$

MAS'ALOOYIN

1. Laba orod-yahan oo tartamayey, ayaa ku soo kala orday 20.35 iyo 21.02 ilbiriqsi. Immisa ilbiriqsi ayaa ay is dheer yihiin tartamayaashu?
2. Raadi faraaqa u dhexeeya 14.31 iyo 9.74.
3. Faarax ayaa toddobaadkii u horreeyey bisha Febraayo soo gatay 47.6 litir oo batrool ah, toddobaadkii ku xigeyna waxa uu soo gatay 40.3 litir. Immisa litir ayaa uu guud ahaan soo gatay bishan?
- (4) Maxamed dhererkiisu waa 1.85 mitir, Cabdi-na dhererkiisu waa 1.97 mitir. Immisa mitir ayaa uu Cabdi ka dheer yahay Maxamed?
5. Ciyaarihii Olmbikada ee sannadkii 1976kii, natiijadii ugu sarreysey ee booddada dheeri waxa ay ahayd 8.35 mitir. Immisa ayaa ay ka yarayd qiyaastii u tiillay Olmbikada oo ahayd 8.90 mitir?
6. Raadi wadarta 28.32 iyo 13.40?
7. Axmed ayaa ku quraacday 15.50 shilin, saaxiibkii waxa uu siiyey 9.40 shilin. Immisa lacag ayaa Axmed ka baxday?

Tusaale:

$$2 \times 0.6 = 2 \times 6 \text{ tobneed} = 12 \text{ tobneed} = 1.2$$

$$2 \times 0.6 = 1.2$$

Raadi taranka

- (1)  $2 \times 0.4$     (2)  $3 \times 0.6$     (3)  $4 \times 0.4$     (4)  $6 \times 0.2$   
 (5)  $2 \times 0.8$     (6)  $9 \times 0.3$     (7)  $7 \times 0.5$     (8)  $4 \times 0.7$

Tusaale: 2

1.4 3 lagu dhufay 4 tobneed waa 12 tobneed = 1.2

$\times 3$  3 lagu dhufay 1 koowaad waa 3 koowaad

4.2 3 koowaad iyo 1 koowaad waa 4 koowaad

Ka shaqee layligan:

1. (b)  $\begin{array}{r} 0.3 \\ \times 5 \end{array}$     (t)  $\begin{array}{r} 2.1 \\ \times 6 \end{array}$     (j)  $\begin{array}{r} 1.3 \\ \times 3 \end{array}$     (x)  $\begin{array}{r} 3.4 \\ \times 2 \end{array}$   
 2. (kh)  $\begin{array}{r} 2.3 \\ \times 4 \end{array}$     (d)  $\begin{array}{r} 0.8 \\ \times 8 \end{array}$     (r)  $\begin{array}{r} 4.8 \\ \times 3 \end{array}$     (s)  $\begin{array}{r} 3.6 \\ \times 4 \end{array}$   
 (b)  $12.4 \times 2$     (t)  $27.3 \times 3$     (j)  $20.2 \times 4$   
 (x)  $48.4 \times 5$     (kh)  $30.5 \times 7$     (d)  $13.8 \times 8$

3. Raadi taranka

- (b) 3 iyo 25.2    (t) 43.5 iyo 6  
 (j) 9 iyo 90.6    (x) 2.8 iyo 7

Fiiri tusaalahan

Marka 10 lagu dhufto:

$$\begin{array}{r} 34.2 \\ \times 10 \\ \hline 342.0 \end{array}$$

tobneedka waxa uu noqdaa koowaad.

koowaadku waxa uu noqdaa tobnaad

tobnaadkuna waxa uu noqdaa boqolaad

$$10 \times 34.2 = 342$$

Sida ugu dhaqsaha badan ee loo helo ku dhufashada 10; waa iyada oo

god kasta bidix loo raro hal rug.

Layli:

1. Guuri oo dhammaystir

(b)  $\begin{array}{r} 4.2 \\ \times 10 \end{array}$     (t)  $\begin{array}{r} 3.4 \\ \times 10 \end{array}$     (i)  $\begin{array}{r} 1.6 \\ \times 10 \end{array}$     (x)  $\begin{array}{r} 27.3 \\ \times 10 \end{array}$

(kh)  $\begin{array}{r} 31.8 \\ \times 10 \end{array}$     (d)  $\begin{array}{r} 60.5 \\ \times 10 \end{array}$     (r)  $\begin{array}{r} 86.9 \\ \times 10 \end{array}$     (s)  $\begin{array}{r} 9.14 \\ \times 10 \end{array}$

2. Istimaai dariiqaha dhaqsaha badan adiga oo ku dhufanaya 10:

(b)  $4.8$     (t)  $3.6$     (j)  $5.7$     (x)  $13.3$

(kh)  $25.5$     (d)  $20.7$     (r)  $81.1$     (s)  $92.4$

3. Nin ayaa soo gatay dhar 5.7 m. ah. Haddii qiimaha mitirkiiba

yahay 10 shiin. Immisa shiin ayaa uu bixiyey ninkaasi?

4. Guri 10 qol ah ayaa loo baahday in koronto la geliyo. Haddii halkii

qolba ay ku filan tahay 12.5 m. oo waayir (fiilo) ah. Immisa mitir

ayaa guriga oo dhammi u baanan yahay?



- (1) 
$$\begin{array}{r} 0.03 \longrightarrow 3 \text{ boqleed} \\ \times 2 \qquad \qquad \times 2 \\ \hline 0.06 \longleftarrow 6 \text{ boqleed} \end{array}$$
- (2) 
$$\begin{array}{r} 0.43 \longrightarrow 4 \text{ tobneed} + 3 \text{ boqleed} \\ \times 2 \qquad \qquad \qquad \times 2 \\ \hline 0.86 \longleftarrow 8 \text{ tobneed} + \text{boqleed} \end{array}$$
- (3) 
$$\begin{array}{r} 0.48 \longrightarrow 4 \text{ tobneed} + 8 \text{ boqleed} \\ \times 2 \qquad \qquad \qquad \times 2 \\ \hline 0.96 \longleftarrow 9 \text{ tobneed} + \text{boqleed} \end{array}$$

Layli:

1. Guuri oo dhammaystir

- (b)  $\frac{0.02}{\times 4}$  (t)  $\frac{0.14}{\times 6}$  (j)  $\frac{1.21}{\times 7}$  (x)  $\frac{1.51}{\times 2}$
- (kh)  $\frac{5.12}{\times 4}$  (d)  $\frac{6.38}{\times 9}$  (r)  $\frac{3.81}{\times 4}$  (s)  $\frac{6.04}{\times 8}$
- (sh)  $\frac{1.42}{\times 3}$  (dh)  $\frac{4.27}{\times 7}$  (c)  $\frac{1.64}{\times 9}$  (g)  $\frac{2.12}{\times 5}$
- (f)  $\frac{3.08}{\times 7}$  (k)  $\frac{4.17}{\times 6}$  (l)  $\frac{2.01}{\times 9}$  (m)  $\frac{0.07}{\times 5}$

2. Raadi jawaabaha:

- (b)  $3 \times 1.27$  (t)  $7 \times 31.06$  (j)  $8 \times 70.03$
- (x)  $5 \times 2.62$  (kh)  $2 \times 1.08$  (d)  $5 \times 5.55$

$\begin{array}{r} 36 \\ \times 10 \\ \hline 360 \end{array}$	B T K $\begin{array}{r} 36 \\ 360 \end{array}$	$\begin{array}{r} 3.6 \\ \times 10 \\ \hline 36.0 \end{array}$	T K T $\begin{array}{r} 3.6 \\ 36.0 \end{array}$	$\begin{array}{r} 0.36 \\ \dots 10 \\ \hline 3.60 \end{array}$	K T B $\begin{array}{r} 0.36 \\ 3.60 \end{array}$
--	---	--	---	--	--

Ku dhufashada 10; u rar bidix hal rug dhammaan godadka.

Qor jawaabaha.

- (1)  $10 \times 0.07$  (2)  $10 \times 0.47$  (3)  $10 \times 1.47$
- (4)  $10 \times 100.1$  (5)  $10 \times 30.04$  (6)  $10 \times 10 \times 1.47$

$$20 \times 2.78 = 2 \times (10 \times 2.78) = 2 \times 27.8 = 55.6$$

Ku dhufashada 20; marka hore ku dhufo 10, ka dibna jawaabta ku dhufo 2.

$\begin{array}{r} 30 \times 0.21 \\ = 3 \times 2.1 \\ = 6.3 \end{array}$	$\begin{array}{r} 40 \times 0.21 \\ = 4 \times 1.2 \\ = 4.8 \end{array}$	$\begin{array}{r} 50 \times 0.13 \\ = 5 \times 1.3 \\ = 6.5 \end{array}$
--	--	--

Sidaas oo kale uga shaqee, kuwan

- (1)  $30 \times 1.31$  (2)  $40 \times 0.09$  (3)  $50 \times 0.64$
- (4)  $90 \times 0.32$  (5)  $60 \times 3.01$  (6)  $80 \times 10.32$
- (7)  $20 \times 0.42$  (8)  $20 \times 5.15$  (9)  $70 \times 7.77$

## 24.4 Iskudhufashada jajab tobanle iyo boqolaadyo

$$\begin{array}{r} 36 \\ \times 100 \\ \hline 3600 \end{array} \quad \begin{array}{r} \text{K B T K} \\ 3 \mid 6 \mid 0 \mid 0 \end{array}$$

$$\begin{array}{r} 3.6 \\ \times 100 \\ \hline 360.0 \end{array} \quad \begin{array}{r} \text{B T K T} \\ 3 \mid 6 \mid 0 \mid 0 \end{array}$$

$$\begin{array}{r} 0.36 \\ \times 100 \\ \hline 36.00 \end{array} \quad \begin{array}{r} \text{T K T B} \\ 3 \mid 6 \mid 0 \mid 0 \end{array}$$

Ku dhufashada 100; u rar bidix laba rugood dhammaan godadka.

Qor jawaabaha

- (1)  $100 \times 1.4$     (2)  $100 \times 12.7$     (3)  $100 \times 0.47$   
 (4)  $100 \times 0.07$     (5)  $100 \times 3.06$     (6)  $100 \times 20.34$   
 (7)  $2.7 \times 100$     (8)  $0.53 \times 100$

$$200 \times 2.85 = 2 \times (10 \times 2.85) = 285 = 570$$

Ku dhufashada 200; marka hore ku dhufo 100, ka dibna jawaabta ku dhufo 2.

$$\begin{aligned} 300 \times 0.21 \\ = 3 \times 21 \\ = 63 \end{aligned}$$

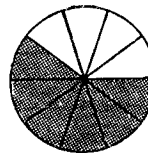
$$\begin{aligned} 400 \times 0.12 \\ = 4 \times 12 \\ = 48 \end{aligned}$$

$$\begin{aligned} 500 \times 0.23 \\ = 5 \times 23 \\ = 115 \end{aligned}$$

Kuwani sidaas oo kale uga shaqee

- (1)  $300 \times 1.32$     (2)  $500 \times 12.3$     (3)  $600 \times 0.14$   
 (4)  $700 \times 6.4$     (5)  $800 \times 3.37$     (6)  $900 \times 0.01$   
 (7)  $200 \times 1.53$     (8)  $100 \times 0.55$     (9)  $0.31 \times 200$   
 (10)  $1.33 \times 500$     (11)  $22.5 \times 700$     (12)  $1.32 \times 600$

## Qaybinta tobneedyada



Si aan u raadinno  $0.6 \div 2$ ,  
waa in aan 6 tobneed u  
qaybinnaa 2.

$$2 \overline{) 0.6}$$

Marka 6 tobneed si isle'eg loogu qaybiyo 2,

waxa midkiiba helayaa 3

$$2 \overline{) 0.3}$$

tobneed. Sababta oo ah  $2 \times 0.3 = 0.6$ .

Raadi jawaabaha

- (1)  $2 \overline{) 0.4}$     (2)  $2 \overline{) 0.8}$     (3)  $4 \overline{) 0.8}$     (4)  $3 \overline{) 0.9}$

Si loo helo  $4.6 \div 2$ , qaybi koowaadyada ka dibna,  
tobneedyada.

$$2 \overline{) 4.6}$$

Raadi jawaabaha:

- (1)  $6.9 \div 3$     (2)  $8.2 \div 2$     (3)  $4.8 \div 4$     (4)  $3.6 \div 3$

$1.8 \div 3$  waxa loo raadin karaa sidan oo kale:

Qaybi koowaadyada. Suura gal ma aha u beddel

$$3 \overline{) 1.8}$$

tobneedyo.

Qaybi tobneedyada. Marka 18 si isle'eg loogu qaybiyo 3,

$$3 \overline{) 0.6}$$

waxa midkiiba helayaa 6.

Raadi jawaabaha:

- (1)  $3 \overline{) 1.5}$     (2)  $4 \overline{) 2.4}$     (3)  $9 \overline{) 1.8}$     (4)  $7 \overline{) 3.5}$   
 (5)  $8 \overline{) 3.2}$     (6)  $5 \overline{) 4.0}$     (7)  $8 \overline{) 5.6}$     (8)  $2 \overline{) 1.2}$   
 (9)  $9 \overline{) 5.4}$

## 24.6 Qaybinta tobneedyada

7.2 ÷ 4 waxa loo raadin karaa sidan oo kale:

Qaybi koowaadka, Marka 7 si isle'eg loogu

$$\text{qaybiyo } 4 \text{ waxa midkiiba } 4 \overline{)7.32}$$

nelayaa 1. Waxa soo haraysa 3.

U beddel 1 tobneedyo.

Qaybi tobneedyada. Marka 32 si isle'eg loogu

$$\text{qaybiyo } 4, \text{ waxa midki-} 4 \overline{)18}$$

iba helayaa

**Layli:**

1. Raadi jawaabaha

(b)  $2 \overline{)7.2}$  (t)  $3 \overline{)4.8}$  (j)  $5 \overline{)7.5}$  (x)  $5 \overline{)9.1}$

(kh)  $4 \overline{)9.6}$  (d)  $6 \overline{)8.4}$  (r)  $8 \overline{)9.6}$  (s)  $9 \overline{)10.8}$

(sh)  $7 \overline{)11.9}$  (dh)  $5 \overline{)12.5}$  (c)  $3 \overline{)17.1}$  (g)  $4 \overline{)13.6}$

(f)  $6 \overline{)20.4}$  (k)  $8 \overline{)62.4}$  (l)  $7 \overline{)48.3}$

2. Najaar ayaa gobol alwaax ah oo dhererkiisu yahay 3.4 m. u

qaybiyey 5 qaybood oo isle'eg. Waa immisa dhererka qaybkasta?

3. Maro dhererkeedu yahay 3.2 m. ayaa waxaa loo qaybiyey 4 mee-

lood oo isle'eg. Waa immisa dhererka qayb kasta?

4. 5 arday ayaa loo wadaajiyey 15.6 shilin. Immisa ayaa ardaygiiba

ku soo hagaagaysa?

## U qaybinta 10.

25.1

32 ÷ 10 waxa loo raadin karaa sidan oo kale:

$$\text{Qaybi koowaadyada. Marka 23 si isle'eg loogu } 10 \overline{)23.0}$$

qaybiyo 10, waxa midkiiba helayaa 2.

Qaybi tobneedyada. Waxa soo haraya 3 koowaad.

U beddel tobneedyo. Marka

$$30 \text{ si isle'eg loogu qaybiyo } 10 \overline{)23.0}$$

10, waxa midkiiba helayaa 3.

Sidaasi daraadeed,  $23 \div 10 = 2.3$

**Ogow: In 23 loo qori karo 23.0**

Guuri oo dhammaystir.

(1)  $10 \overline{)477.0}$  (2)  $10 \overline{)56.0}$  (3)  $10 \overline{)91.0}$  (4)  $10 \overline{)68.0}$

Raadi jawaabta

(1)  $28 \div 10$  (2)  $32 \div 10$  (3)  $74 \div 10$  (4)  $99 \div 10$

Fiiri u qaybinta 10.

$$10 \overline{)4.6} \quad 10 \overline{)7.5} \quad 10 \overline{)16.4} \quad 10 \overline{)12.7}$$

Tani waa sida ugu dhaqsaha badan ee u qaybinta 10. U rar dhammaan godadka hal rug midigta. Godka koowaadka waxa uu noqdaa godka tobneedka. Adeegso dariiqada ugu dhaqsaha badan si aad u raadiso:

(1)  $12.0 \div 10$  (2)  $39. \div 10$  (3)  $76 \div 10$

(4)  $143.0 \div 10$  (5)  $62.0 \div 10$  (6)  $96 \div 10.$

(7)  $20 \overline{)125.0}$  (8)  $10 \overline{)85.0}$  (9)  $10 \overline{)352.0}$

Tusaalooyin

(1)  $0.6 \div 2$

$$\begin{array}{r} 0.3 \\ 2 \overline{)0.6} \\ \underline{0.6} \end{array}$$

(2)  $0.08 \div 2$

$$\begin{array}{r} 0.04 \\ 2 \overline{)0.08} \\ \underline{0.08} \end{array}$$

(3)  $0.68 \div 2$

$$\begin{array}{r} 0.34 \\ 2 \overline{)0.68} \\ \underline{0.60} \\ 0.08 \\ \underline{0.08} \end{array}$$

(4)  $0.85 \div 5$

$$\begin{array}{r} 0.17 \\ 5 \overline{)0.85} \\ \underline{0.50} \\ 0.35 \\ \underline{0.35} \end{array}$$

(5)  $9.36 \div 4$

$$\begin{array}{r} 2.34 \\ 4 \overline{)9.36} \\ \underline{8.00} \\ 1.36 \\ \underline{1.20} \\ 0.16 \\ \underline{0.16} \end{array}$$

(6)  $46 \div 8$

$$\begin{array}{r} 5.75 \\ 8 \overline{)46.00} \\ \underline{40.00} \\ 6.00 \\ \underline{5.60} \\ 0.40 \\ \underline{0.40} \end{array}$$

Layli: \_\_\_\_\_

Raadi jawaabaha

1. (b)  $0.84 \div 4$  (t)  $0.55 \div 5$  (j)  $0.09 \div 3$  (x)  $0.69 \div 3$   
 (kh)  $0.48 \div 2$  (d)  $0.77 \div 7$  (r)  $0.64 \div 2$  (s)  $0.05 \div 5$
2. (b)  $0.51 \div 3$  (t)  $0.92 \div 2$  (j)  $0.91 \div 7$  (x)  $0.76 \div 4$   
 (kh)  $0.96 \div 6$  (d)  $0.96 \div 8$  (r)  $0.75 \div 5$  (s)  $0.16 \div 4$
3. (b)  $8.48 \div 4$  (t)  $4.86 \div 3$  (j)  $6.39 \div 9$  (x)  $19.32 \div 6$   
 (kh)  $4.24 \div 8$  (d)  $22.05 \div 7$  (r)  $1.34 \div 2$  (s)  $123.45 \div 5$
4. (b)  $27 \div 4$  (t)  $38 \div 8$  (j)  $5.1 \div 2$  (x)  $11.2 \div 5$   
 (kh)  $31 \div 4$  (d)  $13.5 \div 6$  (r)  $12.9 \div 5$  (s)  $113 \div 4$

$40 \div 10$	T	K
$= 4$	4	0
		4

$40 \div 10$	K	T
$= 0.4$	4	0
	0	4

$0.4 \div 10$	K	t	b
		0	4
$= 0.04$		0	04

U qaybinta 10; u rar dhammaan godadka hal rug midigta.

Qor jawaabaha

- (1)  $14.7 \div 10$  (2)  $4.7 \div 10$  (3)  $0.7 \div 10$  (4)  $8.6 \div 10$   
 (5)  $32.1 \div 10$  (6)  $99.9 \div 10$  (7)  $0.1 \div 10$  (8)  $13 \div 10$

$4.60 \div 20 = (4.60 \div 10) \div 2 = 0.46 \div 2 = 0.23$

U qaybinta 20; marka hore u qaybi 10, ka dibna u qaybi 2.

$9.6 \div 30$
$= 0.96 \div 3$
$= 0.32$

$8.4 \div 40$
$= 0.84 \div 4$
$= 0.21$

$7.5 \div 50$
$= 0.75 \div 5$
$= 0.15$

Kuwani sidaasi oo kale uga shaqee

- (1)  $8.4 \div 20$  (2)  $2.6 \div 20$  (3)  $13.6 \div 80$  (4)  $11.2 \div 70$   
 (5)  $12.6 \div 60$  (6)  $8 \div 20$  (7)  $20.5 \div 90$  (8)  $7.2 \div 40$   
 (9)  $17 \div 50$  (10)  $36 \div 80$  (11)  $75 \div 20$  (12)  $138 \div 40$   
 (13)  $50 \div 10$  (14)  $25 \div 90$  (15)  $13.1 \div 50$  (16)  $6 \div 10$ .

## 25.4 U qaybinta boqlaadyo.

B T K	T K	K t b
$400 \div 100$ $= 4$	$40 \div 400$ $= 0.4$	$.4 \div 100$ $= 0.04$
$400$ $4$	$400$ $4$	$4.00$ $0.04$

U qaybinta 100; u rar dhammaan godadka laba rugood midig

Qor jawaabaha:

- (1)  $8 \div 100$  (2)  $5 \div 100$  (3)  $58 \div 100$  (4)  $62 \div 100$   
 (5)  $70 \div 100$  (6)  $147 \div 100$  (7)  $205 \div 100$

$$26 \div 200 = (26 \div 100) \div 2 = 0.26 \div 2 = 0.13$$

U qaybinta 200; marka hore u qaybi 100, ka dibna jawaabta u qaybi 2.

$69 \div 300$ $= 0.69 \div 3$ $= 0.23$	$84 \div 400$ $= 0.84 \div 4$ $= 0.21$	$95 \div 500$ $= 0.95 \div 5$ $= 0.19$
--	--	--

Kuwani sidaas oo kale uga shaqee.

- (1)  $48 \div 200$  (2)  $460 \div 200$  (3)  $75 \div 500$  (4)  $45 \div 300$   
 (5)  $64 \div 400$  (6)  $565 \div 500$  (7)  $15 \div 300$  (8)  $721 \div 700$

## Isuqaybin Iyo Isku dhufasho Jajab Tobanle.

25.5

### MAS'ALOOYIN

- Kartoon ay ku jiraan 10 qalin ayaa qiimihiisu yahay 15.80 shilin. Waa immisa qiimaha qalinkiiiba?
- 8 qof oo shaqaale ah, ayaa abaal gud loo siiyey 34.56 kg oo sonkor ah. Immisa kg oo sonkor ah ayaa uu midkiiba helayaa?
- Loox dhererkiisu ahaa 3.45 mitir ayaa loo kala gooyey 5 qaybood oo isle'eg. Waa immisa dhererka qayb kastaa?
- Faadumo ayaa walaalaheed oo 5 gabdhood ah, si isle'eg ugu qaybisay 41.75 mitir oo maro ah, si ay mid walba ugu samayso canbuur (kurdad). Immisa mitir ayaa ay middiiba heleysaa?
- Maxamed ayaa soo iibsaday 17.50 kg. oo bur ah, kiiladiiba waxa uu soo siistay 30 shilin. Immisa shilin ayaa uu soo siistay dhammaan?
- Bas ayaa saacaddiiba socday 80 km. Haddii uu socday 8.45 saac. Immisa kiiloomitir ayaa uu baskaasi socday?

Amminta ay saacaddani sheegeyso

waxa loo qori karaa:

2.50 "3dii oo toban dhiman".

Sidaa oo kale.

3.05 waxa loo qori karaa "3dii iyo shan".

"11kii oo 5 dhiman" waxa loo qori karaa 10.55.



**Layli**

1. U qor ammin kasta ereyo ahaan:

- |            |          |           |           |
|------------|----------|-----------|-----------|
| (b) 8.20   | (t) 7.05 | (j) 9.25  | (x) 12.45 |
| (kh) 10.30 | (d) 1.45 | (r) 11.35 | (s) 9.40  |

2. U qor ammin kasta tiro ahaan.

- (b) Toddobadii iyo shan (t) Tobankii iyo sar (j) kowdii oo labaatan dhiman
- (x) Labadii iyo rubuc
- (kh) Kowdii oo labaatan dhiman
- (d) Afartii oo shan dhiman
- (r) Lixdii iyo rubuc
- (s) Tobankii iyo, labaatan iyo shan

3. U qor ammin kasta ereyo ama tiro ahaan

- (b) 6.35 (t) 2.50 (j) 4.20 (x) 3.05 (kh) 6.55 (d) 7.30.
- (r) saddaxdii iyo rubuc (s) Afartii oo labaatan dhiman (sh) Lixdii oo shan dhiman (dh) Kowdii iyo toban (c) Tobankii iyo shan
- (g) Labadii oo toban dhiman.

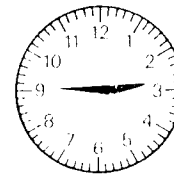


Tani waa saacad godeed. Waxay muujinaysaa toddobadii iyo toban iyo shan, oo loo qori karo 7:15.

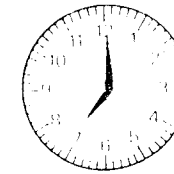
**Layli**

1. Sawir saacad godeed muujinaysa amminnada ka muuqda saacadahan.

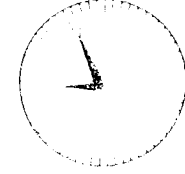
b)



t)



j)



2. Ereyo ahaan u qor amminta ay muujinayso saacad godeed kasta.

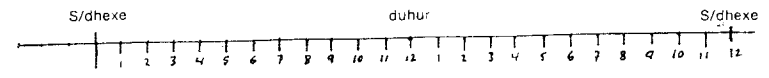
- |          |           |            |
|----------|-----------|------------|
| (b) 9:55 | (t) 10:15 | (j) 6:55   |
| (x) 7:35 | (kh) 8:45 | (d) 4:10   |
| (r) 1:50 | (s) 2:30  | (sh) 11:35 |

3. Sawir saacad godeedyo muujinaya

- (b) 3-dii oo labaatan dhimman.
- (t) 11-kii oo rubuc dhimman.
- (j) 6-dii oo labaatan iyo shan dhimman.
- (x) 12-kii oo shan dhimman.
- (kh) 8-dii oo rubuc dhimman.

Badanaa waxa aynu isticmaallaa saacado 12-saac ah, oo inoo sheegta amminta. Amminta u dhexeysa min saqda dhexe ilaa duhurka waxaynu niraahnaa saacadaha gelinka hore (gh.), amminta u dhexeysa min duhurka ilaa saacadaha dhexena waxaan niraahnaa saacadaha gelinka dambe (gd.).

Ammin-xariiqeedkani wuxuu kaa caawinayaa ka jawaabidda su'aalaha hoose.



Layli

1. Cayaar kubbadda cagta ah ayaa maalin kasta la bilaabaa 3.10 gd. labadeeda qaybood mid kasta waxa ay socotaa 45 daqiiqo, waxaana la nastaa 10 daqiiqo.
  - (b) Ammintee la nastaa?
  - (t) Ammintee qaybta dambe bilaabantaa?
  - (j) Ammintee ciyaartu dhammaataa?
2. Barnaamij socda muddo 35 daqiiqo ah ayaa wuxuu dhammaadaa 3.55 gd. ammintee ayuu bilaabmaa?
3. Maktabad ayaa la furaa 10-ka gh. waxaana la xiraa 8-da gd. muddo intee le'eg bay maktabaddu furan tahay.
4. Cali wuxuu dugsiga aadaa 7.45 gh., wuxuu guriga ku soo noqdaa 1.15 gd. muddo intee le'eg ayuu guriga ka maqnaadaa?

Saacadaha noocan oo kale ah waxa badanaa

1	0	4	5
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lagu isticmaalaa shaqooyinka la xiriira basaska,

tareennada iyo dayaaradaha, waxaana lagu magacaabaa

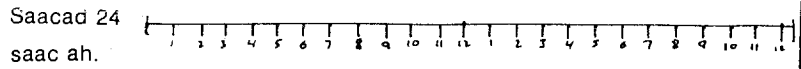
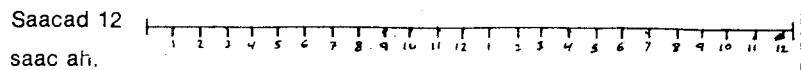
**Saacad 24 saac ah** Saacaddani waxa ay tilmaamaysaa 10.45 gh.

(kow iyo tobankii oo rubuc dhimman duhurka ka hor).

Habdhiska 24-ka saac waxa ay u qorantaa 10.45, taas oo dhibicda ay kala soocayso saacadaha iyo daqiiqadaha.

Mar kasta waxa la isticmaalaa afar god. Labada god ee hore waxa ay muujinayaan saacadda, labada dambena daqiiqadaha saacadda dhaaftay.

Ammin xariiqeedyadani waxa ay kaa caawinayaan ka jawaabidda su'aalaha hoose.



Layli:

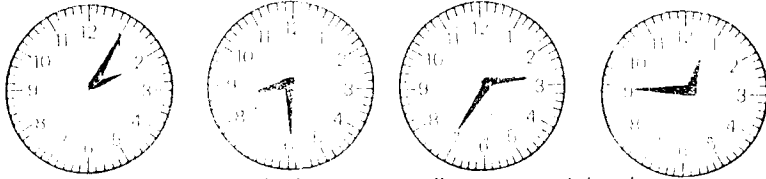
1. 3 gd waxa loo qori karaa 15.00 ama toban iyo shan boqol. 3 gh waxa loo qori karaa 03.00 ama saddex boqol. Dhammaan amminnadan u qor tiro ahaan iyo ereyo ahaan.
  - (b) 6 gd, 9 gd, 11 gd, 6 gh, 10 gh, 7 gh, 4 gd.
  - (t) 8 gh, 7 gd, 11 gh, 2 gh, 10 gd, 1 gd, 5 gd, 9 gh.
2. 13.50 waxa loo qori karaa 1.50 gd ama labadii oo toban dhimman. 9-05 gh waxa loo qori karaa 09.05. Guuri oo dhammaystir tusahan.

Saacad 24 saac ah.	13.50	19.10		23.45	0.905	07.50		10.20
Saacad 12 saac ah.	1.50 gd		9.20 gd		9.05 gh		4.05 gh	

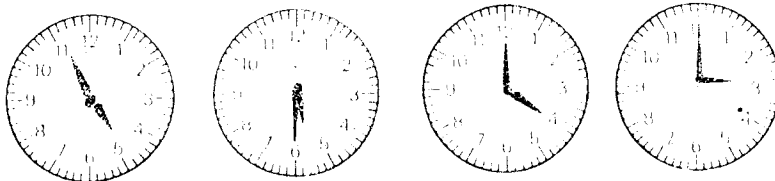
**Layli**

1. Amminnada saacadahan ay muujinayaan u qor qormada saacad 24 saac ah.

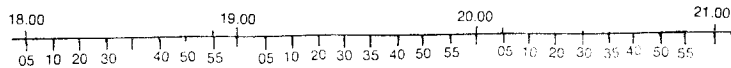
(b) Dhammaan amminnadani waxa ay u dhexeeyaan saq-dhexe iyo duhur (gh.).



(t) Dhammaan amminnadani waxa ay u dhexeeyaan duhur iyo saq-dhexe (gd.).



Ammin xarriiqeedkani waxa uu kaa caawinayaa ka jawaabidda su'aalaha hoose.



- Bas ayaa ka abaxay Hargeysa, saacadda oo ah 18.45. Waxaana uu gaaray Aw Barkhadle, saacadda oo ah 19.10. Immisa saacadood ayaa uu baskaasi u kala socday Hargeysa iyo Aw Barkhadle
- Diyaaradda Diyaarad ayaa garoonka Burco ka duushay 19.15, saacaddu markii ay ahayd 20.45, waxa ay ka degtay garoonka Berbera. Immisa saacadood ayaa ay diyaaraddaasi u kala socotay Burco iyo Berbera?
- Filim socda saacad iyo 35 daqiiqo ayaa la bilaabay, saacadda oo ahayd 19.00. Goorma ayaa uu dhammaanayaa?
- Ciyaar kubbadda cagta ah ayaa la bilaabay, saacadda oo ah 18.00, waxa ay dhammaatay 19.40. Immisa saacadood ayaa ay ciyaartaasi socotay?

1000 mitir dherer ahaan waxa uu la mid yahay 1 kiiloomitir.

1 kiiloomitir waxa loo qori karaa 1 km.

$$1400 \text{ m} = 1000 \text{ m} + 400 \text{ m}$$

$$= 1 \text{ km } 400 \text{ m}$$

U qor kuwani sidaa oo kale.

- (b) 1760 m      (t) 2262 m      (j) 2050 m      (x) 5005 m  
 (kh) 4440 m      (d) 2743 m      (r) 3421 m      (s) 3500 m

1 km dhererkiisu waxa uu la mid yahay 1000 m.

U qor dhererradan mitir.

- (b) 1 km      (t)  $\frac{1}{2}$  km      (j)  $\frac{1}{4}$  km      (x)  $\frac{3}{4}$  km      (kh) 5 km  
 (d)  $\frac{2}{5}$  km      (r) 2 km      (s)  $\frac{4}{5}$  km      (sh)  $\frac{1}{5}$  km      (dh) 3 km

$$2 \frac{3}{4} \text{ km} = 2 \text{ km} + \frac{3}{4} \text{ km}$$

$$= 2000 \text{ m} + 750 \text{ m}$$

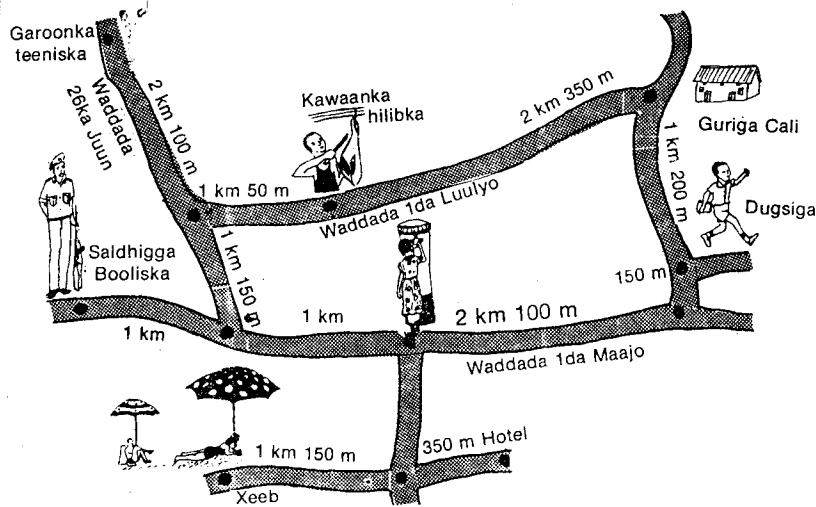
$$= 2750 \text{ m.}$$

U qor dhererradan mitir.

- (b) 2 km      (t)  $3 \frac{1}{2}$  km      (j)  $1 \frac{1}{2}$  km      (x)  $2 \frac{1}{4}$  km  
 (kh)  $3 \frac{3}{4}$  km      (d)  $2 \frac{1}{2}$  km      (r)  $3 \frac{1}{4}$  km  
 (s)  $\frac{3}{4}$  km      (sh) 5 km      (dh)  $3 \frac{1}{4}$  km



## 26.6 Isugeynta iyo kalagoynta kiiloomitiro



Waxa sidan loo raadin karaa inta guriga Cali uga dhaw yahay dugsiga, kawaanka.

$$2 \text{ km } 250 \text{ m} \longrightarrow 2350 \text{ m}$$

$$1 \text{ km } 200 \text{ m} \longrightarrow 1200 \text{ m}$$

$$1150 \text{ m} \longrightarrow 1 \text{ km } 150 \text{ m.}$$

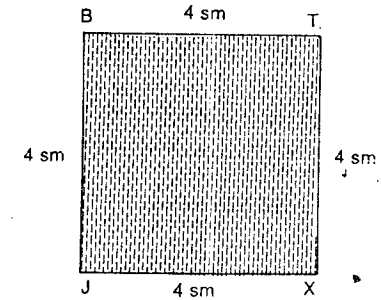
### Layli \_\_\_\_\_

1. Qof deggan hoteelka ayaa raba in uu ku soo nasto xeebta. Fogaan intee le'eg ayaa uu soconayaa?
2. Arday dugsiga joogey ayaa aaday boostada. Sii socod iyo soo socod ahaanba, fogaan intee le'eg ayaa uu soconayaa?
3. Fogaan intee le'eg ayaa ay isku jiraan saldhigga booliska iyo garoonka teeniska?
4. Taksiile joogey garoonka teeniska ayaa soo aaday dugsiga. Haddii uu soo maray waddada 26 Juun iyo waddada 1da Maajo. Immissa kiiloomitir ayaa uu socday?

## Wareegga labajibbaarane

27.1

Labajibbaarane waa shaxan leh afar dhinac oo isle'eg iyo afar xaglood oo qumman.



Shaxankani waa labajibbaarane dhinac kastaa yahay 4 sm.

Labajibbaranaha kor ku sawiran wareeggiisu (w) waa wadarta cabbirrada dhinacyadiisa oo ah  $BT + BJ + TX + JX = 4 \text{ sm} + 4 \text{ sm} + 4 \text{ sm} + 4 \text{ sm} = 16 \text{ sm.}$

Wareegga labajibbaarane waa taranka 4 iyo dhererka dhinaciisa.

$$\begin{aligned} \text{Wareegga labajibbaarane} &= 4 \times \text{dherer} \\ &= 4 \times \text{dh} \end{aligned}$$

**Tusaale:** Soo saar wareegga labajibbaarana dhererka dhinaciisa yahay 13 sm.

### Furfuris:

Haddii la ina siiyo dhererka dhinac keliya oo labajibbaarane waan soo saari karnaa wareeggiisa waayo waxa aan ognahay in dhinacyadiisu isle'eg yihiin.

Wareegga labajibbaarana waa:

$$13 \text{ sm} + 13 \text{ sm} + 13 \text{ sm} + 13 \text{ sm} = 52 \text{ sm.}$$

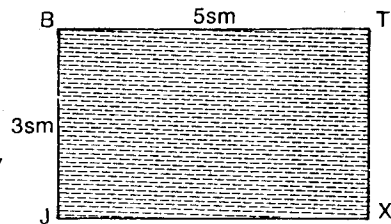
$$\text{ama } 4 \times \text{dh} = 4 \times 13 \text{ sm} = 52 \text{ sm.}$$

### Layli \_\_\_\_\_

1. Sheeg jidka wareegga labajibbaarane?
2. Raadi wareegga labajibbaarannada dhererka dhinacyadooda lagu siiyey.
 

(b) 3 sm	(t) $\frac{1}{2}$ dm	(j) 30 mm	(x) 15.5 sm
(kh) 10 m	(d) $4 \frac{1}{2}$ mm	(r) 14 km	(s) $7 \frac{1}{4}$ mm

Shaxankani waa laydi. Laydi waa shaxan afar dhinac leh oo labadii dhinac ee iska soo horjeedaba ay isle'eg yihiin, afartiisa xagloodna ay qumman yihiin.



Haddii dhinaca BT ee leydiga cabbirkiisu yahay 5 sm, dhinaca JX cabbirkiisu waa 5 sm, waayo JX waa dhinaca ka soo horjeeda BT. Haddii dhinaca BJ uu cabbirkiisu yahay 3 sm waa immisa cabbirka TX?

Dhinaca dheer ee laydiga waxa la yiraahdaa dherer (dh), dhinaca gaabanna waxa la yiraahdaa ballac (b).

Laydiga kor ku sawiran wareeggiisu (w) waa wadarta cabbirrada dhinacyadiisa oo ah,

$$5 \text{ sm} + 3 \text{ sm} + 5 \text{ sm} + 3 \text{ sm} = 16 \text{ sm.}$$

Kol haddii ay isugeyntu hornagal tahay waxa loo qori karaa isle'egtan:

$$(5 + 3) \text{ sm} + (5 + 3) \text{ sm} = 16 \text{ sm.}$$

waxa ayna u dhigantaa

$$2 \times (5 + 3) \text{ sm} = 16 \text{ sm ama } 2 \times 8 \text{ sm} = 16 \text{ sm.}$$

Wareegga laydiga waxa uu le'eg yahay wadarta dhererka iyo ballaca oo labantaaban.

Wareegga laydi = (dherer + ballac)  $\times$  2

$$W = (dh + b) \times 2$$

**Tusaale:**

Raadi wareegga laydi dhererkiisu yahay 7 sm, ballaciisuna yahay 3sm.

**Furfuris:**

Jidka wareegga laydigu waa:

$$\begin{aligned} W &= 2 \times (dh + b) \\ &= 2 \times (7 \text{ sm} + 3 \text{ sm}) \\ &= 2 \times (10 \text{ sm}) \\ &= 20 \text{ sm.} \end{aligned}$$

**Tusaale:**

Raadi wareegga laydi dhererkiisu yahay 2 mitir ballaciisuna yahay 60 sm.

**Furfuris:**

U beddel labada mitir sentimitirro, kuna shaqee jidkii wareegga laydiga:

$$\begin{aligned} W &= 2 \times (dh + b) \\ &= 2 \times (200 \text{ sm} + 60 \text{ sm}) \\ &= 2 \times (260 \text{ sm}) \\ &= 520 \text{ sm.} \end{aligned}$$

Wareeggu waa 520 sm.

**Layli**

1. Raadi wareegyada laydiyada lagu siiyey dhererkooda iyo ballacooda.

	Dherer	Ballac
(b)	33 sm	25 sm
(t)	1/4 m	20 sm
(j)	1.2 m	80 sm
(x)	1 km	39 sm
(kh)	3 dm	2 dm

- Raadi wareegga qolka aad ku jirto.
- Raadi wareegga miiska baraha.
- Raadi wareegga wejiga ballaaran ee buugga xisaabta.

## 27.4 Wareegga saddexagal

Saddexagal waa shaxan saddex dhinac leh.

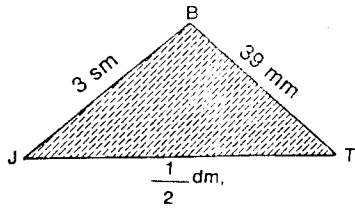
Shaxankan waa saddexa-gal cabbirka dhinacyadiisu ay yihiin 3 sm, 4 sm iyo 4.5 sm.

Wareegga saddexagalkan waa wadarta cabbirka dhinacyadiisa

$$W = 4.5 \text{ sm} + 3 \text{ sm} + 4 \text{ sm} = 11.5 \text{ sm.}$$

**Tusaale:**

Raadi wareegga saddexagal:ka hoos ku sawiran



Halbeegyada cabbiraadda dhinacyada saddexagalkan waa ay kate geddisan yihiin. Marka milimitirro aan u wada beddelno, sentimitirro ama desimitirroba.

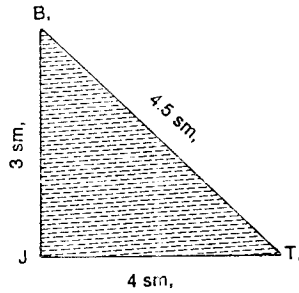
$$3 \text{ sm} = 30 \text{ mm}, \quad \frac{1}{2} \text{ dm} = 5 \text{ sm} = 50 \text{ mm.}$$

$$\begin{aligned} W &= 3 \text{ sm} + 39 \text{ mm} + \frac{1}{2} \text{ dm} \\ &= 30 \text{ mm} + 39 \text{ mm} + 50 \text{ mm} = 119 \text{ mm.} \end{aligned}$$

**Layli**

1. Sidee lagu helaa wareegga saddexagal?
2. Raadi wareegyada saddexagallada dhererka dhinacyadooda lagu siiyey:

(b) 6 sm	14 sm	12 sm
(t) 30 m	25 m	12 m
(j) 17.8 mm	8.9 mm	14.5 mm
(x) 3 sm	22 m	2 dm
(kh) 0.5 m	35 sm	2.7 dm



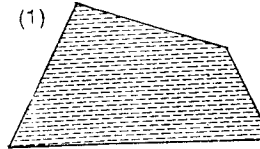
## Wareegga qaabab

## 27.5

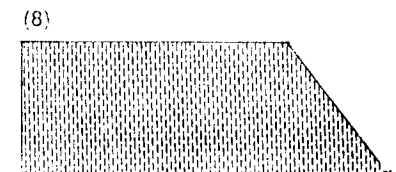
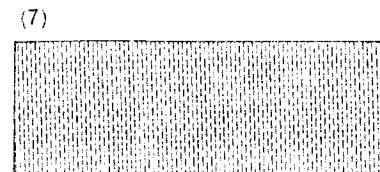
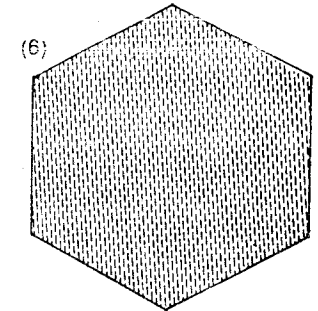
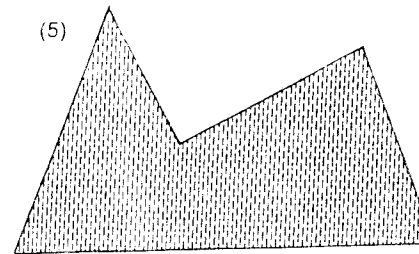
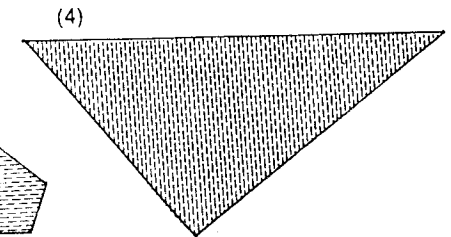
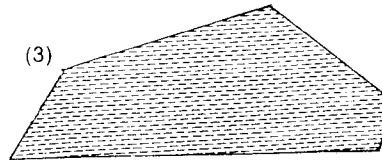
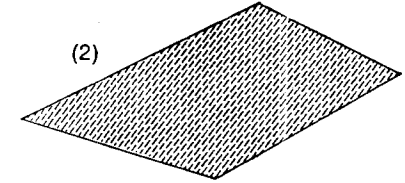
Xusuus: Wareegga qaab kasta waa wadarta dhererka dhinacyadiisa.

**Layli**

Raadi wareegga qaab kasta adigoo adeegsanaya mastarad. U qor jawaabta sida shaxanka 1aad.



$$\text{Wareegga} = 3 + 3 + 2 + 5 = 13 \text{ sm}$$



27.6 Aqoonsiga sentimitir labajibbaaran

Dhererka dhinac kasta ee labajibbaaranahaani waa 1 sm. Bedka labajibbaaranaha waa 1 sentiimitir labajibbaaran.



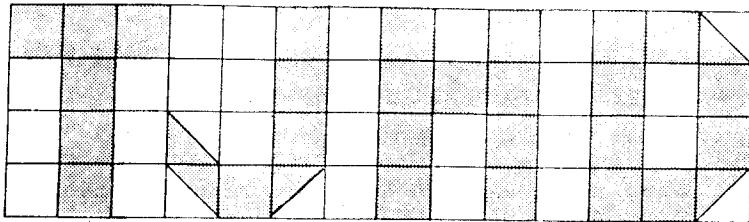
Saddexagallada mid kasta bedkisu waa  $\frac{1}{2}$  sentiimitir labajibbaaran.



Bedka qaabkani waa 4 sentiimitir labajibbaaran.

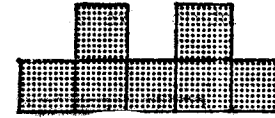


Raadi bedka xaraf kasta inta sentiimitir labajibbaaran uu yahay. Jawaabtaada u qor sidan oo kale T— 6 sentiimitir labajibbaaran.



Bed — Barashada qormada sm<sup>2</sup>

28.1

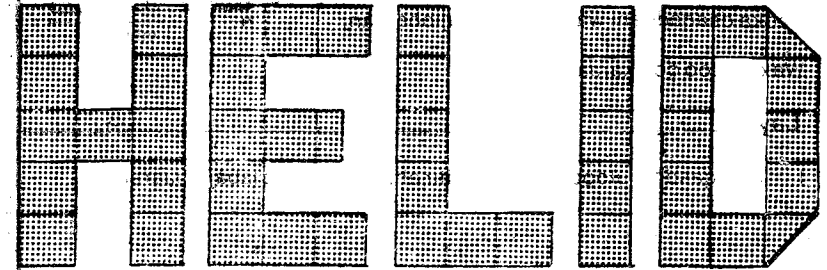


Wadarta dulaha qaabkani waa toddoba sentiimitir oo labajibbaaran.

Waxa loo qori karaa

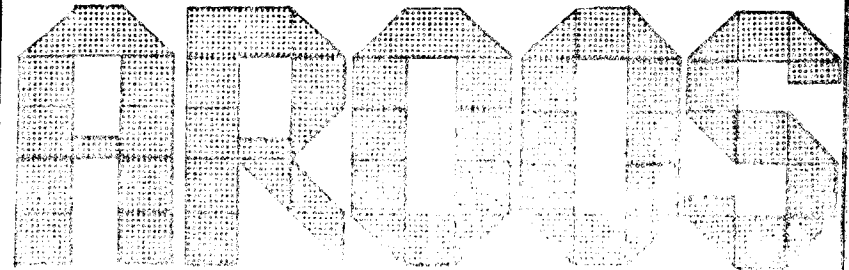
Bed = 7 sm<sup>2</sup>

Qor bedka xarfahan



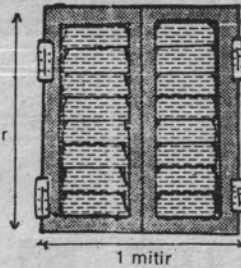
Xarfahan waxa ay ka sameysan yihiin labajibbaaraneyaal idil iyo labajibbaaraneyaal badhkood.

Qor bedka mid kasta.



Waxa aad u baahan tahay usha mitirka, si aad u cabbirto walxo kala duwan.

Dhererka mid kasta oo ka mid ah dhinacyada daaqaddan (dariishaddan) waa 1 mitir.



Bedka daaqaddani waa 1 mitir labajibbaaran.

Waxana loo qori karaa  $1 \text{ m}^2$

**Layli**

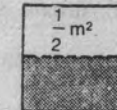
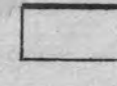
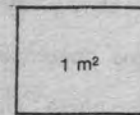
1. Soo qaado 4 ulood oo min 1 mitir ah, kana samee labajibbaarane.
2. Sheeg in dusha miiskaagu ka weyn tahay ama ka yar tahay 1 mitir labajibbaaran.
3. Fiiri dulaha walxaha laga heli karo fasalka, sida: albaabka, sabuuradda, daaqadda, miiska baraha; kadibna ku buuxi meelaha bannaan sida ay ugu kala habboon yihiin?
  - b) Waxa aan filayaa in bedka dushan \_\_\_\_\_ uu ka weyn yahay 1 m. labajibbaaran.
  - t) \_\_\_\_\_ waa yeelan karaa bed u dhow 1 m. labajibbaaran.
  - j) Labada dulood ee bedkoodu ka yar yahay 1 m. labajibbaaran waa \_\_\_\_\_ iyo \_\_\_\_\_.

Soo qaado warqad cabbirkeedu yahay 1 m. labajibbaaran. U qaybi warqadda laba qaybood oo isle'eg sida

$1 \text{ m}^2$

Isku laab

kala goo



Badhka hal mitir oo labajibbaaran waxa loo qori karaa

$\frac{1}{2} \text{ m}^2$

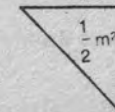
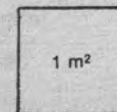
Soo qaado warqad cabbirkeedu le'eg yahay 1 m labajibbaaran. U qaybi 4 meelood oo isle'eg sida:

$1 \text{ m}^2$

Isku laab

mar kale isku laab

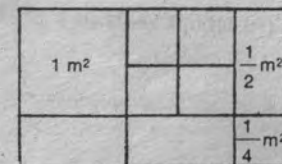
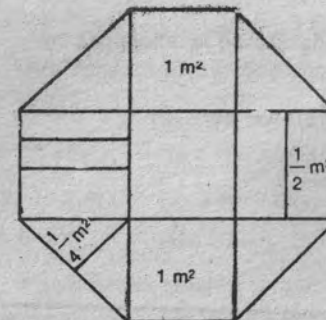
kala goo



rubaca mitir labajibbaaran waxa loo qori karaa  $\frac{1}{4} \text{ m}^2$ .

**Layli**

Buuxi meelaha bannaan



Bedka labajibbaarane, laydi, saddexagal iyo shaxannada kale ee ku oqdan dhawr xariijimood waxa lagu soo saaraa iyada o shaxankaa loo qaybiyo labajibbaaranaayaal. Markaa, bedka shaxan kasta waa inta labajibbaarane ee uu ka kooban yahay. Halbeegga cabbiraadda bedku waa labajibbaarane dhinac kasta dhererkiisu yahay halbeeg cabbiraadeed. Bedka labajibbaarane dhinac kastaba dhererkiisu yahay 1 sm waxa weeye 1 sm labajibbaarane, waxana loo qoraa  $1 \text{ sm}^2$ .

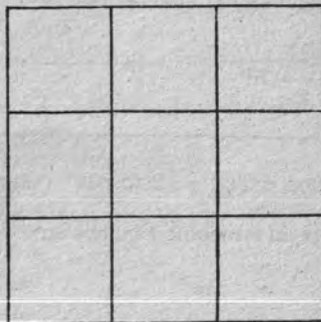
**Tusaale:**

Raadi bedka labajibbaarane dhinac kasta dhererkiisu yahay 1 sm.

**Furfuris:**

Labajibbaaranaahan waxa aan u qaybin karnaa sagaal labajibbaarane oo mid kasta dhinacyadiisu ay yihiin 3sm

3 sm



3 sm

Markaa, bedka labajibbaaranaahani waa  $9 \text{ sm}^2$ .

Haddii aad u fiirsato tusalahan waxa aad arkaysaa in  $9 \text{ sm}^2$  ay tahay 3 sm iyo 3 sm oo la isku dhuftay. Haddaba, waxa aan ognahay in bedka labajibbaaranaahu yahay cabbirka dhinaciisa oo la labajibbaaray.

Bedka (A) labajibbaarane = dhinac  $\times$  dhinac  $dh \times dh$ .

ama  $A = dh \times dh = (dh)^2$ .

**Tusaale:**

Raadi bedka labajibbaarane dhererka dhinaciisu yahay 4 sm.

**Furfuris:**

Bedka labajibbaarane =  $dh \times dh = (dh)^2$ .

$$A = 4 \text{ sm} \times 4 \text{ sm}$$

$$= 16 \text{ sm}^2$$

**Tusaale:**

Raadi inta mm ee labajibbaarane ee ku jirta  $1 \text{ sm}^2$ .

**Furfuris:**

Waxa aan ognahay in  $1 \text{ sm}^2$  ay tahay bedka labajibbaarane dhinaciisu yahay 1 sm. 1 sm waxaa ku jirta 10 mm.

$$\text{Markaa: } 1 \text{ sm}^2 = 1 \text{ sm} \times 1 \text{ sm}$$

$$= 10 \text{ mm} \times 10 \text{ mm}$$

$$= 100 \text{ mm}^2$$

**Tusaale:**

Ku raadi mm<sup>2</sup> bedka labajibbaarane dhererka dhinaciisu yahay 1 sm iyo 7 mm.

**Furfuris:**

U rog mm dhererka dhinaca labajibbaaranaaha 1 sm iyo 7 mm =  $10 \text{ mm} + 7 \text{ mm} = 17 \text{ mm}$ .

$$A = dh \times dh = (dh)^2 = (17 \text{ mm})^2 = 189 \text{ mm}^2$$

**Layli**

1. Qor jidka lagu helo bedka labajibbaarane.
2. Ku raadi bedka labajibbaaraneyaasha dhinacyadooda lagu sliiyey  $\text{sm}^2$  ama  $\text{mm}^2$ .
  - (b) 13 sm      (t) 4 sm, 2 mm    (j) 7 m      (x) 13 dm
  - (kh) 14 mm    (d) 1 m, 3 dm    (r) 2 m, 5 sm
  - (s) 5 dm      (sh) 23 sm      (dh) 31 mm.
4. Raadi bedka labajibbaarane dhinaca dhererkiisu yahay 5 m.

Sida bedka labajibbaarane, bedka laydi waa inta labajibbaarane, ee mid kasta dhererka dhinaciisu yahay halbeeg cabbiraadeed, ee uu ka kooban yahay Laydigu.

**Tusaale:**

Raadi bedka laydi dhererkiisu yahay 4 sm, ballaciisuna yahay 3 sm.

**Furfuris:**

Laydigan waxa ku jira 12 labajibbaarane.

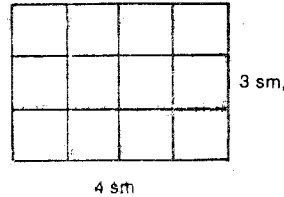
Markaa bedka laydigan waa  $12 \text{ sm}^2$

U fiirso in  $12 \text{ sm}^2$  ay tahay 3 sm iyo 4 sm

oo la isku dhuffay.

Markaa bedka laydi = dherer  $\times$  ballac ama

$$A = \text{dhr} \times b.$$



**Layli** \_\_\_\_\_

1. Raadi bedka sebuuradda fasalkaaga.
2. Raadi bedka laydiyada dhererkooda iyo ballacyadooda hoos laguugu sheegay.

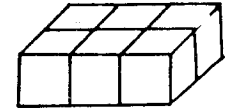
Dherer	Ballac
(b) 12 dm	5 dm
(t) 3 sm	8 mm
(j) 14 km	10 km
(x) 24 dm	14 mm
(kh) 5 m	2 m

Sadjibekahan wuxuu leeyahay 2 dhinac,

u tax oo min 3 saddexjib baarane ah

Muggiisu waa  $3 + 3 = 3 \times 2 = 6$  saddexjib

baarane.

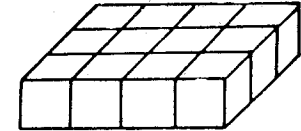


Sadjibekahan waxa uu leeyahay 3 dhinac-

u-tax oo mid kasta leeyahay 4 saddexjib

baarane.

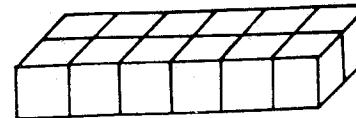
muggiisu waa  $4 + 4 + 4 = 4 \times 3 = 12$  Saddexjibbaarane



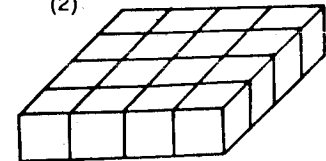
**Layli** \_\_\_\_\_

Tiri dhinac u taxyada, soona saar mugga Sadjibekeyaashan

(1)

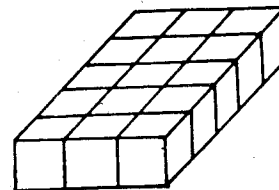


(2)

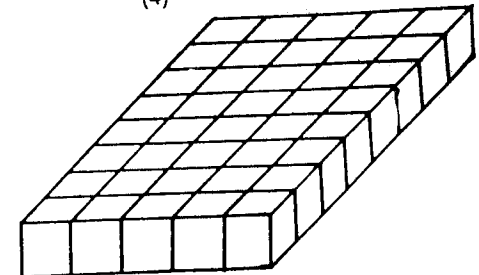


Mug =  $6 + 6 = 12 =$  \_\_\_\_\_ saddexjibbaarane.

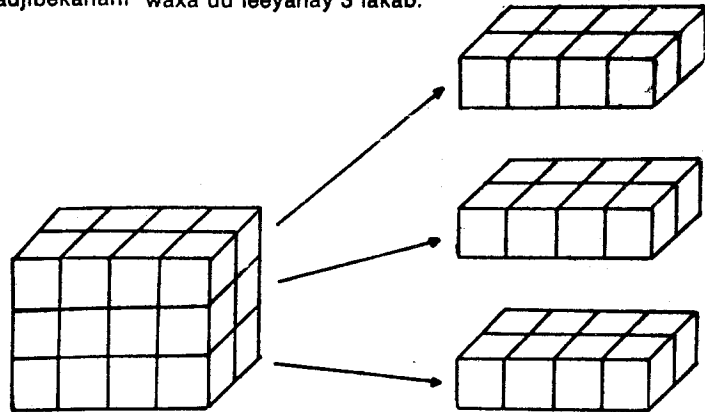
(3)



(4)



Sadjibekahani waxa uu leeyahay 3 lakab.



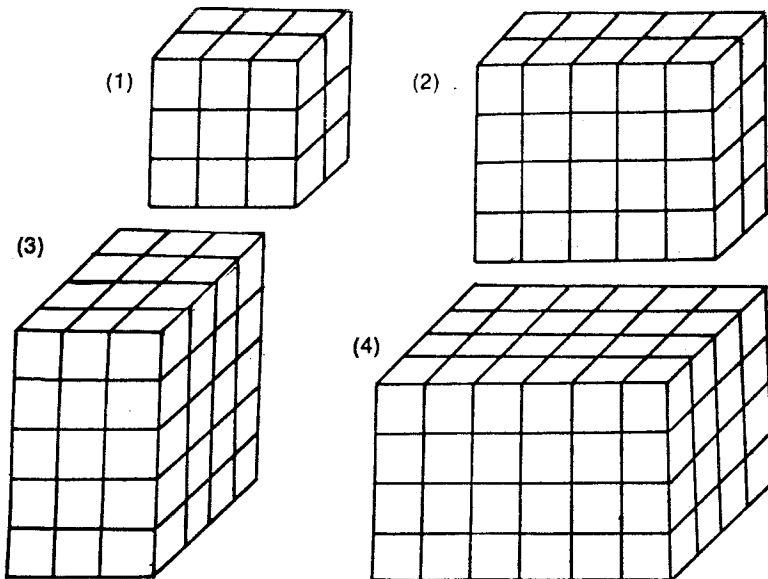
Mugga hal lakab = 8 saddexjibbaarane

Tirada lakabyada = 3

Mugga sadjibeke =  $8 \times 3 = 24$  saddexjibbaarane.

**Layli.**

Raadi mugga Sadjibeke kasta adigoo raacaya habka sare.



Si aad dhaqso ugu heshid mugga sadjibeke raadi marka hore saddexjibbaaranyaasha ku jira hal lakab, ka dibna ku dhufo tirada lakabyada.

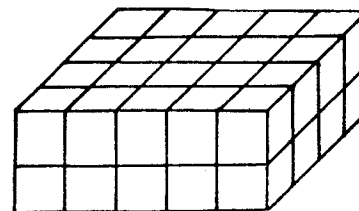
Raac tallaabooyinkan si aad u heshid tirada saddexjibbaaranyaasha ku jira hal lakab.

1. Tiri tirada dhinac-u-taxyada ee Sadjibekaha
2. Tiri inta saddexjibbaarane ee ku jira hal dhinac-u-tax.
3. Tirada saddexjibbaaranyaasha ku dhufo tirada dhinac-u-taxyada.

Ka dib raadi mugga

4. Tiri tirada lakabyada.
5. Tirada saddexjibbaaranyaasha ee hal lakab ku dhufo tirada lakabyada.

**Tusaale:** Raadi mugga sadjibekahan



Tirada saddexjibbaaranyaasha ee hal dhinac-u-tax = 5

Tirada dhinac-u-taxyada = 4

Tirada saddexjibbaaranyaasha ee hal lakab =  $5 \times 4 = 20$

Tirada lakabyada = 2

mugga sadjibeke =  $20 \times 2 = 40$  saddexjibbaarane

Dariiqadda dhakhsaha badan ee loo raadiyaa waa:

Mug = saddexjibbaaranyaasha hal dhinac-u-taxyada  $\times$  tirada

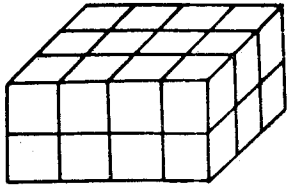
dhinac-u-taxyada tirada lakabyada

=  $5 \times 4 \times 2 = 40$  saddexjibbaarane.



Layli

Raadi mugga sajibekeyaasha

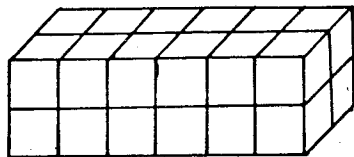
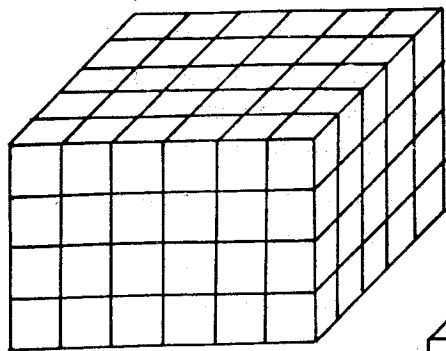
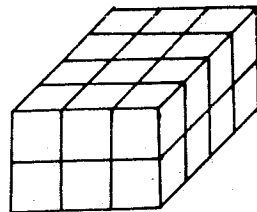
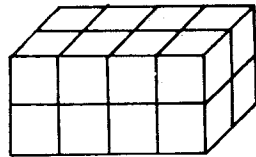
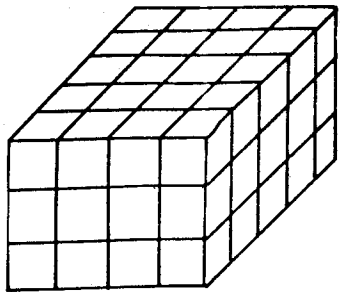


Mugga Sadjibeke =  $2 \times 4 \times 3 = 24$

saddex jibbaarane

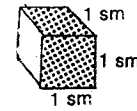
Mugga Sadjibeke =  $2 \times 4 \times 3 = 24$

saddexjibbaarane.



Kani waa halbeeg cabbiraadeed oo saddexjibbaaran.

Muggiisu waa 1 sentimitir saddexjibbaaran.



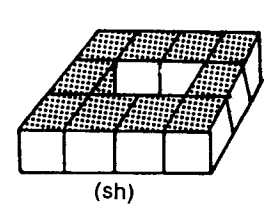
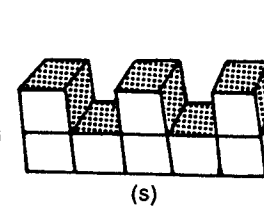
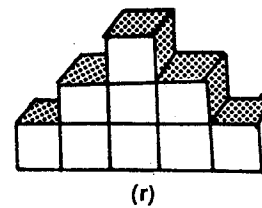
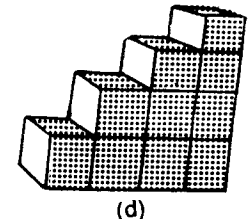
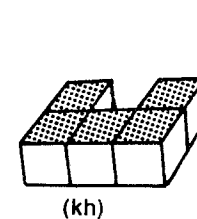
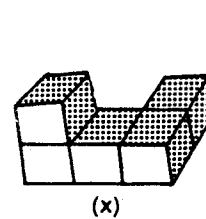
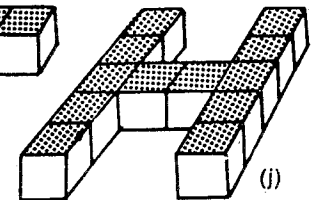
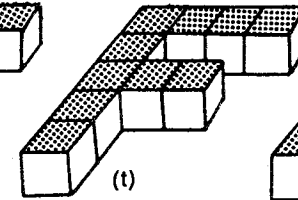
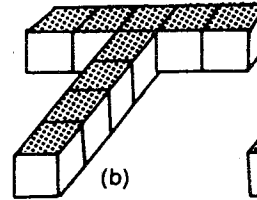
Qaabkani waxa uu ku dhisan yahay 4 halbeeg oo saddexjibbaaran.



Muggiisu waa 4 sentimitir saddexjibbaaran.

Layli

1. U qor mugga qaab kasta sentiimitir saddexjibbaaran.



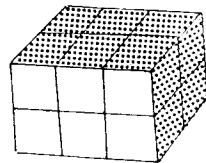
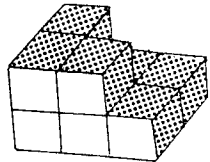
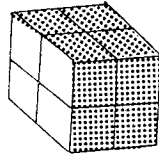
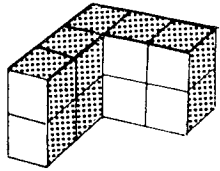
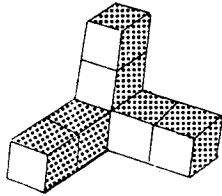
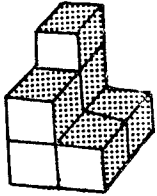
2. Sawir xarfaha E iyo L adigoo isticmaalaya saddexjibbaar, isla markaana qor mugga mid kasta.

## 29.6 Barashada hnlbeeg saddexjibbaaran

Hal sentiimitir saddexjibbaaran waxa loo qori karaa  $1 \text{ sm}^3$ .

Layli.

1. U qor mugga shaxan kasta  $\text{sm}^3$ .



2. (b) Sawir qaabab muggoodu kala yahay  $12 \text{ sm}^3$ ,  $8 \text{ sm}^3$ ,  $9 \text{ sm}^3$ ,  $10 \text{ sm}^3$ .

(t) Laba shaxan oo kala qaab ah muggoodu ma isle'ekaan karaan?

## Mugga sadjibeke

30.1

Mugga sadjibeke waxa uu ka samaysan

yahay santiimitirro saddexjibbaaran.

Immisa lakab buu leeyahay?

Lakabkiiba immisa saddexjibbaarane

ayaa ku jira.

Muggiisa waa «mugga hal lakab  $\times$  tirada lakabyada»

Mugga =  $4 \times 4 \times 3 = 48 \text{ sm}^3$ .

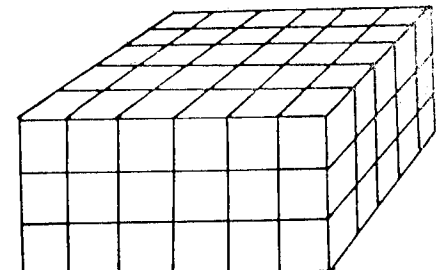
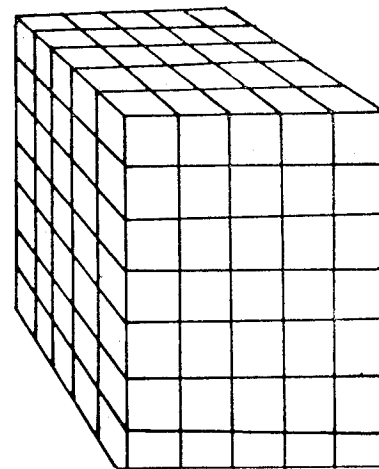
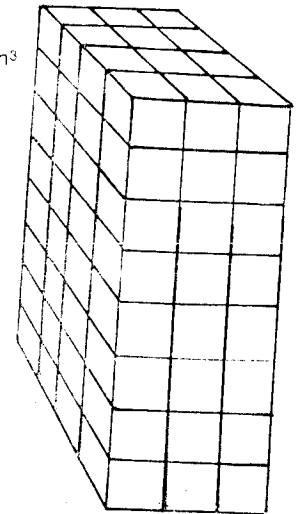
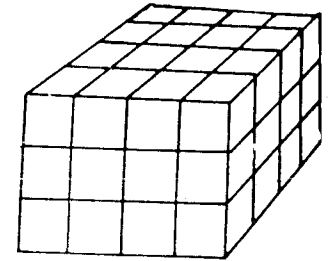
Layli \_\_\_\_\_

Raadi mugga sadjibeke yaashan

Mugga = \_\_\_\_\_  $\times$  \_\_\_\_\_  $\times$  \_\_\_\_\_  $\text{Sm}^3$

= \_\_\_\_\_  $\times$  \_\_\_\_\_  $\text{Sm}^3$

= \_\_\_\_\_  $\text{Sm}^3$



1000 sm<sup>3</sup> waxa ay isku mug yihiin 1 litir.

1 sm<sup>3</sup> waxa ay isku mug yihiin

$\frac{1}{1000}$  litir waxaā kaloo lagu magacaabaa millilitir waxaana loo qoraa ml.

Markaa  $\frac{1}{1000}$  litir = 1 millilitir (ml) = 1 sentiimitir saddexjibbaaran (sm<sup>3</sup>).

1 litir = 1000 millilitir = 1000 sentiimitir saddexjibbaaran.

Layli: \_\_\_\_\_

1. U qor litir.

$$500 \text{ sm}^3 = \frac{1}{2} \text{ litir}$$

$$200 \text{ ml} = \text{_____ litir.}$$

$$1000 \text{ sm}^3 = \text{_____ litir.}$$

$$500 \text{ ml} = \text{_____ litir.}$$

$$100 \text{ sm}^3 = \text{_____ litir.}$$

$$1 \text{ ml} = \text{_____ litir.}$$

2. U qor ml ama sm<sup>3</sup>.

$$\frac{3}{4} \text{ litir} = 750 \text{ ml.}$$

$$\frac{1}{4} \text{ litir} = \text{_____ sm}^3$$

$$\frac{1}{100} \text{ litir} = \text{_____ ml}$$

$$\frac{1}{1000} \text{ litir} = \text{_____ ml}$$

$$\frac{1}{5} \text{ litir} = \text{_____ sm}^3$$

$$\frac{1}{2} \text{ litir} = \text{_____ ml}$$

1. Dhalo ayaa waxa ay qaaddaa 1000 ml. oo subag ah.

(b) U qor mugga dhalada sm<sup>3</sup> iyo litir.

Haddii halkii marba laga isticmaalo 25 ml.

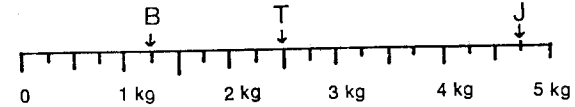
(t) Waa intee mugga la isticmaalayo afar jeer?

(j) Immisa jeer baa la isticmaalayaa dhalada?

Haddii toddobaadkiiba laga isticmaalo 8 jeer oo min 25 ml.

(x) Immisa ml oo subag ah ayaa haraya saddex toddobaad ka ayo.

(kh) Immisa toddobaad oo kale ayaa la sii isticmaali karaa.



Qiyaastan waxa ay muujinaysaa **kiilogaraamyo** iyo **rubuc kiilogaraamyo**.

Cali ayaa miisaamay saddex walxood B, T iyo J midkiiba hal mar.

Xarriiqdan waxa ay muujinaysaa meesha tilmaamuhu ku kala dhacayo.

Cali baa qoray in:

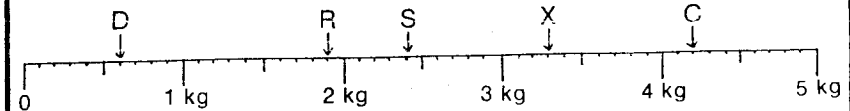
**Walaxda B culeyskeedu yahay  $1 \frac{1}{4}$  kg walaxda T culeyskeedu yahay**

**$2 \frac{1}{2}$  kg, walaxda J culeyskeedu yahay  $4 \frac{3}{4}$  kg.**

(1) Cali sax ma yahay?

(2) Walaxda T immisa ayey ka culays tahay walaxda B?

(3) Walaxda T immisa ayey ka fudud tahay walaxda J?



Qiyaastan waxa ay muujinaysaa kiilogaraamyo iyo  $\frac{1}{10}$  kiilogaraam

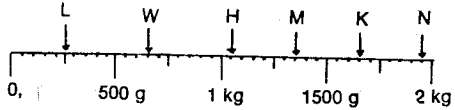
Gaalis kasta waa  $\frac{1}{10}$  kg =  $\frac{1}{10}$  ka 1000 g = 100 g.

Tilmaamuhu waxa ay muujinayaan culaysyada walxaha X, D, R, S iyo C.

(1) Qor culayska walax kasta.

(2) Walaxda S immisa ayey ka culays tahay walaxda R.

(3) Walaxda D immisa ayey ka fudud tahay walaxda R.

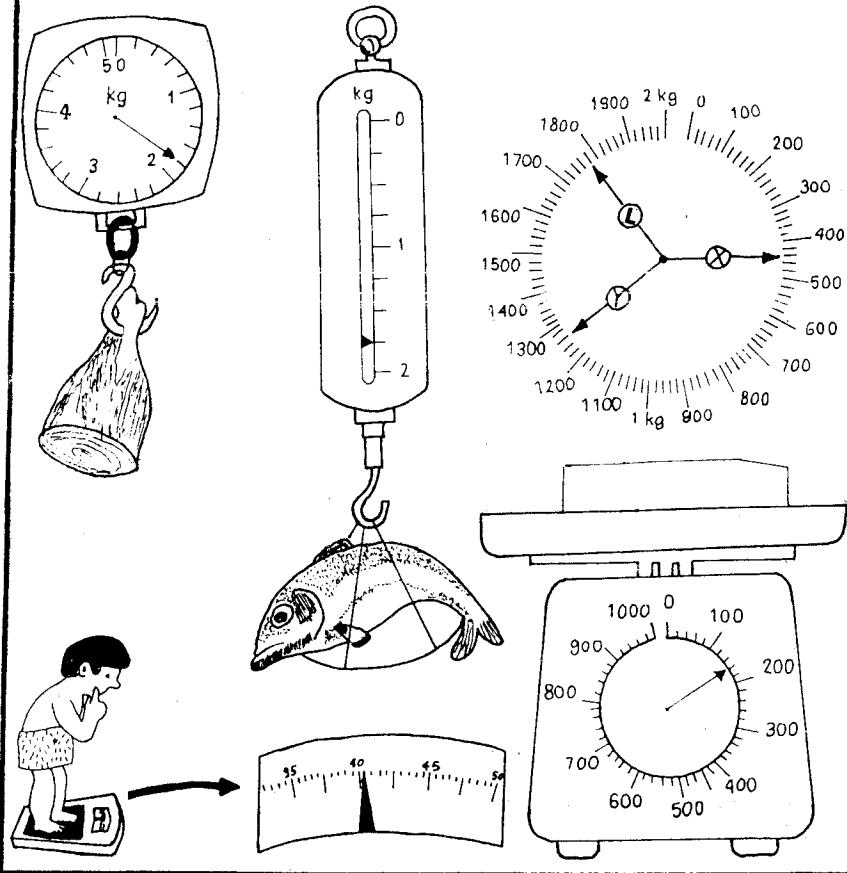


Qiyaastan, gaaliska ugu yar intee garaam ayaa uu u taagan yahay?

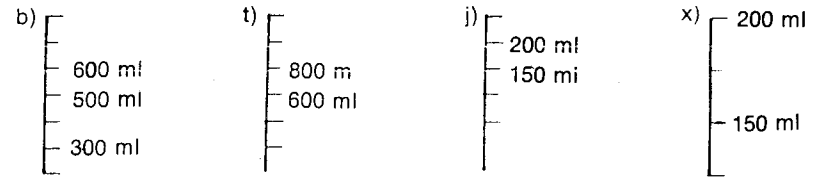
Qor culaysyada ay muujinayaan tilmaamayaasha

K, L, M, N, W, H.

Akhri, isla markaana qor culaysyada ay muujinayaan miisaannadan.

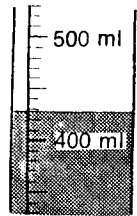


Halkan waxa ka muuqda qaybo qiyaaseed oo ku yaalla weelal wax lagu cabbiro oo kala duwan.

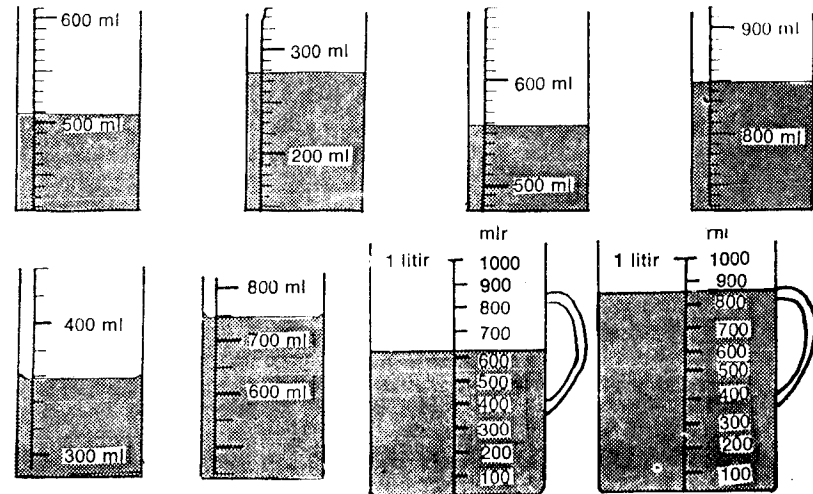


Jaantuskan waxa uu muujinayaa qaybo qiyaaseed oo ku yaalla weel wax lagu cabbiro.

- (b) Immisa gaalisyo yar-yar ayaa u dhexeeya calaamadaha 400 ml iyo 500 ml.
- (t) Waa immisa mugga uu galis kasta oo yari u taagan yahay.
- (j) Waa immisa mugga hoorka ka jira weelkan.



Waa immisa mugga hoorka ku jira weel kasta.

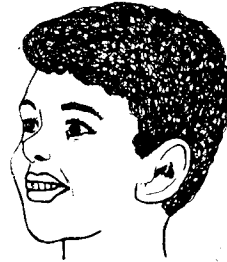


30.6 Garaaf sawireed

Arday aan isku fasal nahay ayaa aan weydiiyey khudaarta ay ka kala helaan. Waxa ay sheegen in:

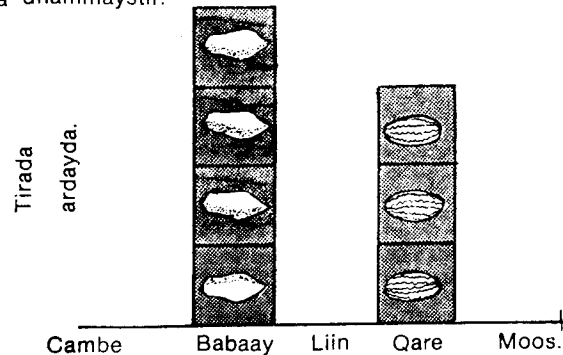
8 arday ay ka helaan Cambe  
 4 arday ay ka helaan Babaay  
 6 arday ay ka helaan Liin  
 3 arday ay ka helaan Qare  
 5 arday ay ka helaan Moos

Guuri tusaha ka dibna dhammaystir



Cunto	Cambe	Babaay	Liin	Qare	Moos.
tirada ardayda		4		3	

Adigoo adeegsanaya tusaha sare, guuri garaaf sawireedkan ka dibna dhammaystir.

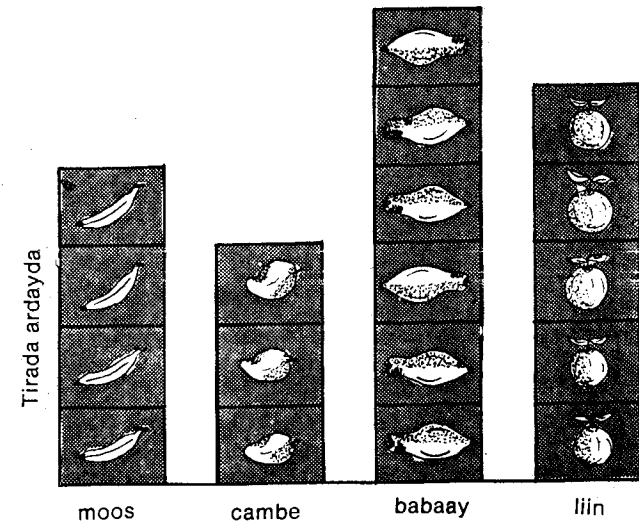


31.1 Garaaf sawireed

Tusaha hoose waxa uu muujinayaa khudaarta ay ka kala helaan 18 arday.

Khudaar	Moos	Cambe	Babaay	Liin
Tirada ardayda	4	3	6	5

Garaaf sawireed ahaan waxaa loo muujin karaa sidan.



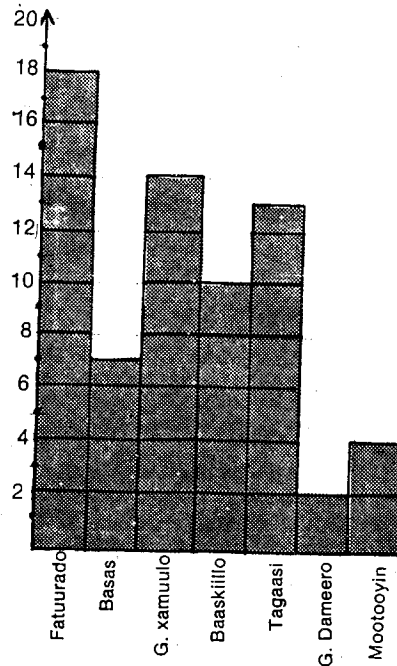
1. Immisa arday ayaa ka hela moos?
2. Immisa arday ayaa jecel liinta?
3. Khudraddee ayaa ardayda ugu badan ka heshaa?
4. Khudraddee ayaa ardayda ugu yar ka heshaa?
5. Ardayda ka hesho babaaygu immisay dheer yihiin ardayda ka hesho canbaha?

### 31.2 Garaaf layiyeed

Jaamac oo tuulo wax ka baran jirey ayaa maalintii u horreysey ee uu magaalo weyn soo galo arkay tiro gaagiid kala duwan ah. Tiradooduna waxa ay kala ahayd sidan:

Nooca gaadiidka	Fatuurado	Basas	G. Xamuulo	Tagaasi	Mootooyin	G-dameerro	Baaskiillado
Tirada gaadiidka	18	7	14	13	4	2	10

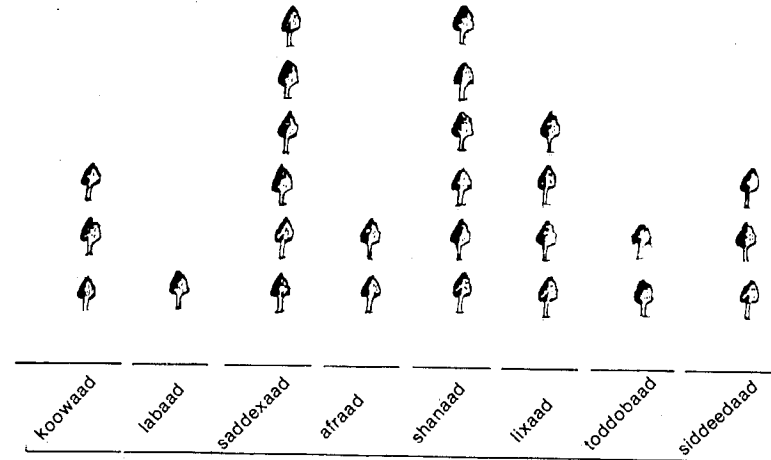
ka dib waxa uu sameeyey garaaf layiyeedkan:



1. Nooca gaadiidka ugu badan ee uu arkay waa kuwee?
2. Nooca gaadiidka ugu yar ee uu arkay waa kuwee?
3. Immisa ayaa ay is dheer yihiin tagaasida iyo mootooyinka uu arkay?

### 31.3 Garaaf sawireed

Nin ayaa tiriyey dhir ku taalla 8 beerood, waxana uu sawiray shaxanka hoose oo geedkiiba u taagan yahay toban geed.



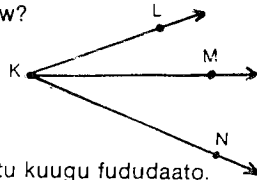
Fiiri shaxankan kana jawaab su'aalahan.

1. Immisa geed ayaa ku taalla beerta koowaad?  
Jawaab:  $3 \times 10 = 30$  geed.
2. Immisa geed ayaa ku taalla beerta afraad?
3. Immisa geed ayaa ku taalla beeraha oo dhan?
4. Immisa geed ayaa ku taalla beeraha oo dhan?
5. Beerta lixaad immisa geed ayaa ay dheer tahay beerta saddexaad?
6. Beertee ayaa ugu dhir badan?
7. Beertee ayaa ugu dhir yar?

31.4 Magacaabidda iyo isgarab dhigidda xaglaha.

Fiiri sawirkan.

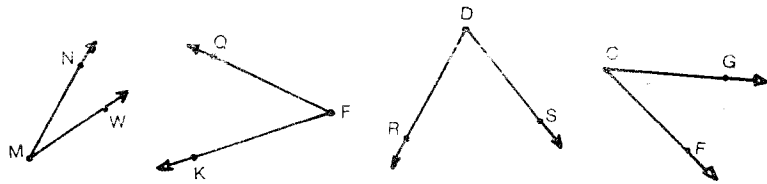
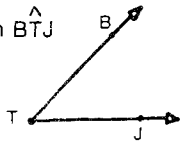
- (b) Immisa fallaarood ayaa kuu muuqda. Magacow?
- (t) Immisa xaglood ayaa kuu muuqda. Magacow?
- (j) Fiiri xaglaha LKM iyo LKN. Tee weyn?
- (x) Fiiri xaglaha LKM iyo MKN. Tee weyn?



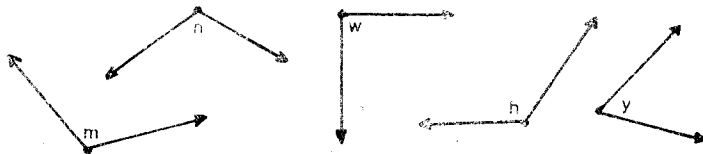
Adeegso warqad aad isku laabtay si jawaabtu kuugu fududaato.

Adeegso warqad laalaaban si ay kaaga caawiso buuxinta weedhooyinkan:

- (b) \_\_\_\_\_ iyo \_\_\_\_\_ waxa ay la baax yihiin  $\hat{BTJ}$
- (t) \_\_\_\_\_ waa ay ka weyn tahay  $\hat{BTJ}$
- (b) \_\_\_\_\_ waxa ay ka yar tahay  $\hat{BTJ}$ .

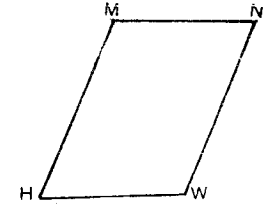
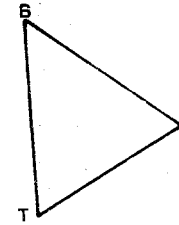


Xaglaha isku baax ah waxa lagu magacaabaa xaglo isku sargo'an. Xaglahan kuwee ayaa isku sargo'an.

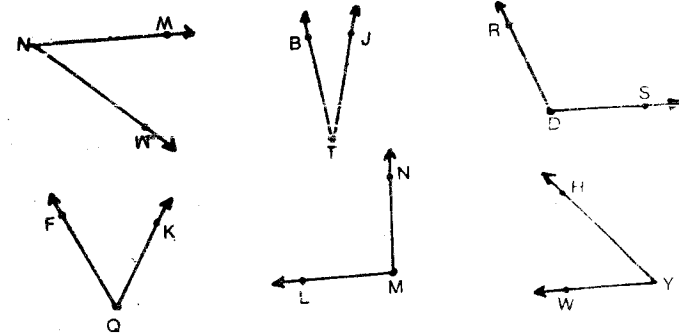


31.5 Magacaabidda iyo isgarab dhigidda xaglaha.

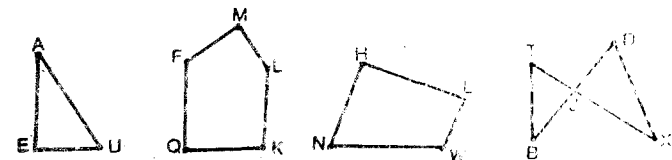
Magacow xaglaha isku sargo'an ee shaxannadan mid kasta oo ka mid ah.



Shaxannadan, ka raadi xaglaha (b) la baax ah (t) ka weyn iyo (j) ka yar  $\hat{MNW}$ .

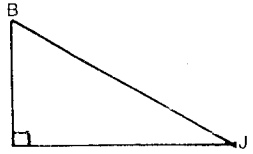


Magacow xaglaha qumman ee shaxannadan.



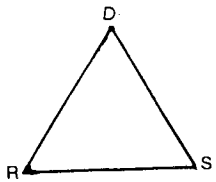
31.6 Noocyada saddexagallada

Sawirkani waa saddexagal BTJ.



Waxa loo qori karaa  $\triangle BTJ$ . Dhinacyadiisu waxa ay ka samaysan yihiin 3 xarriijimood,  $\overline{BT}$ ,  $\overline{TJ}$  iyo  $\overline{JB}$ . Waxana uu leeyahay 3 xagood,  $\hat{B}$ ,  $\hat{T}$ ,  $\hat{J}$  iyo  $\hat{JBT}$ , waxa kale oo uu leeyahay 3 gees

B, T iyo J. Saddexagalkani waxa uu leeyahay xagal qumman,  $\hat{BTJ}$ . Waxaana lagu magacaabaa saddexagal **Xagal qummanle ah.**



Kani waa sawirka saddexagalka DRS, waxa uu leeyahay 3 dhinac oo isle'eg,  $\overline{DR}$ ,  $\overline{RS}$  iyo  $\overline{SD}$  waxa lagu magacaabaa saddexagal **dhinacyo isle'eke ah**

Sawirkani waa saddexagalka FQK,

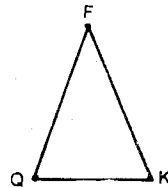
waxana uu leeyahay 2 dhinac oo

isle'eg,  $\overline{FQ}$  iyo  $\overline{KF}$ . Saddexagalka

ugu yaraan 2 dhinac isle'eg yihiin,

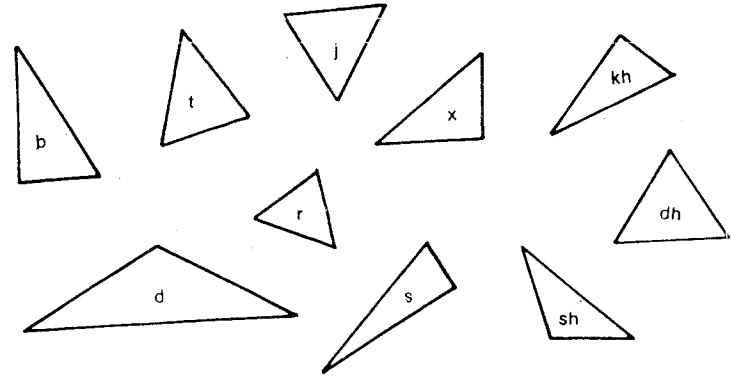
waxa lagu magacaabaa saddexagal

**Labaale ah**



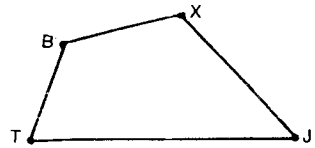
32.1

Fiiri saddexagalladan, kana jawaab su'aalaha hoose.



1. Sheeg saddexagallada dhinacyo - isle'eke ah.
2. Sheeg saddexagallada xagal - qummanle ah.
3. Sheeg saddexagallada labaale ah





Sawirkani waa afar dhinacloaha BTJX.

Dhinacyadiisu waa 4-ta xarriijimood.

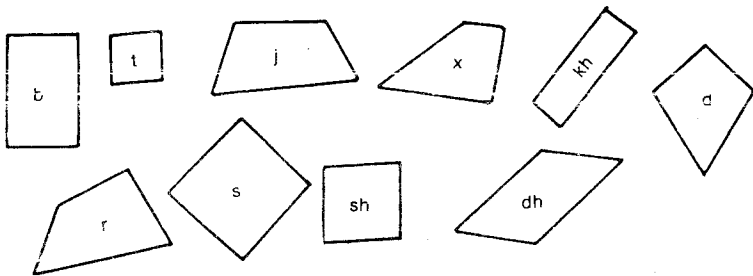
$\overline{BT}$ ,  $\overline{TJ}$ ,  $\overline{JX}$ ,  $\overline{XB}$ .

Waxa uu leeyahay 4 xaglood  $\hat{B}TJ$ ,  $\hat{T}JX$ ,  $\hat{J}XB$  iyo  $\hat{X}BT$  iyo 4 gees B, T, J, iyo X.

Shaxan kasta oo xiran oo afar dhinacle ah waxa lagu magacaabaa **afar dhinacle**

Dhammaan shaxannadani waa afar dhinacloyaal.

Ka jawaab su'aalaha ka hooseeya.

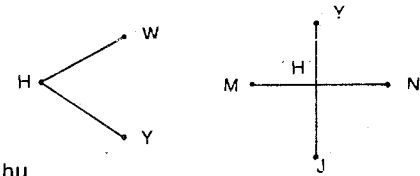


1. Soo saar dhererka dhinacyada (sm) iyo wareegga shaxan kasta, adoo isticmaalaya mastarad.
2. Sheeg shaxannada laydiga ah.
3. Sheeg shaxannada labajibbaarane ah.
4. Sheeg shaxannada xagai qumman leh.

Haddii shaxanno ay wadaagaan baro, waxa la yiraahdaa way isgooyaan.

Baraha ay wadaagaanna waxa lagu magacaabaa baraha isgoyska.

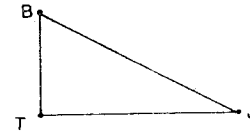
Shaxannada, H waa barta ay iska gooyaan xarriijimuhu.



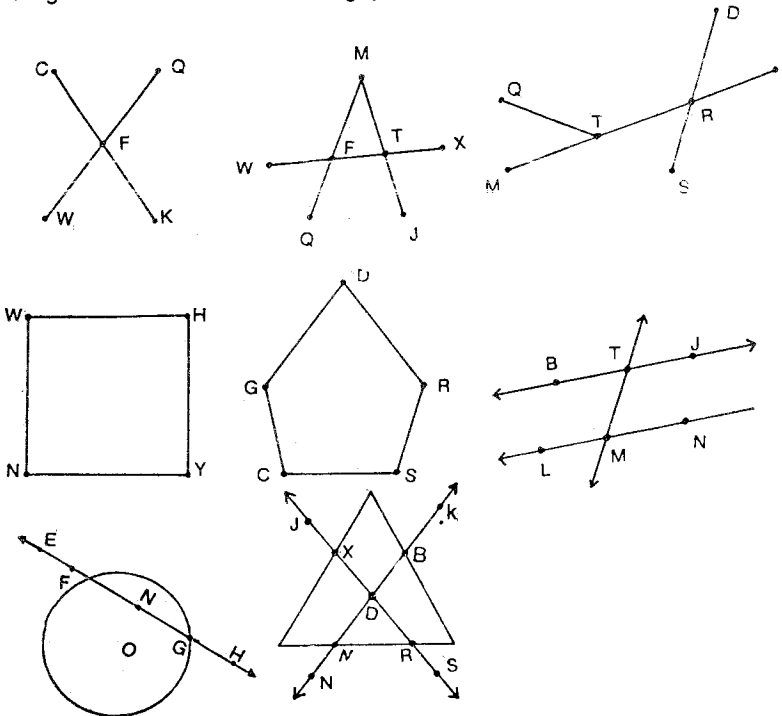
Saddexagalka BTJ, xarriijimuhu

waxa ay iska gooyaan saddexbarood.

Baraha isgoysku waa B,T iyo J.



Magacow dhammaan baraha isgoyska ee shaxan kasta.



Kani waa sawir goobo.

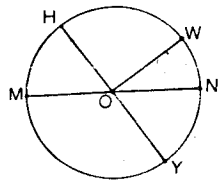
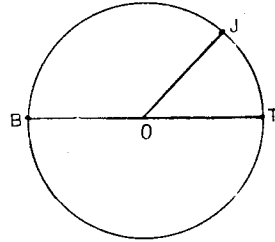
O waa **Xudunta** goobada. BOT waxa

la yiraahdaa **dhexroor**. Waxa kale oo loo

qori karaa  $\overline{BT}$ , taasi oo ah xariijinta BT.

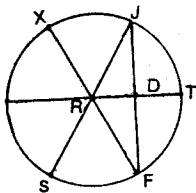
J waa bar goobada ku dul taal.  $\overline{OJ}$  waa **gacanka** goobada.

$\overline{OB}$  iyo  $\overline{OT}$  iyaguna waa gacanno.



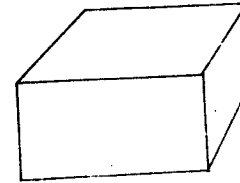
O waa xuddunta goobada.

1. Magacow 2 dhexroor.
2. Magacow 5 gacan.

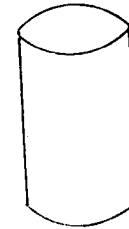


$\overline{BT}$  iyo  $\overline{SJ}$  waa dhexroorro.

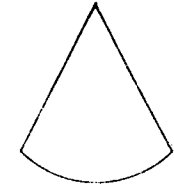
1. Magacow xuddunta goobada.
2. Magacow dhexroor kale.
3. Magacow 4 gacan.



Sanduuq



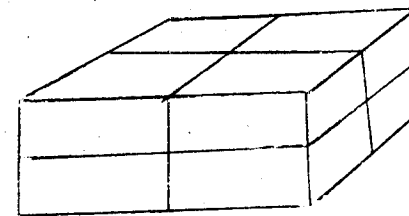
dhululubo



toobin

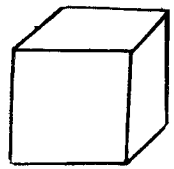
Adiga oo kaashanaya macallinkaaga ka jawab su'aalahaan la xiriira sanduuqa.

1. Imisa weji ayaa uu sanduuqu leeyahay?
2. Imisa cuf ayaa uu sanduuqa leeyahay?
3. Imisa gees ayaa uu sanduuqa leeyahay?
4. Imisa sanduuq oo yar yar ayaa uu sanduuqaan weni ka sarney-san yahay?

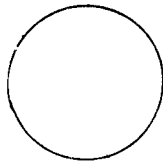


5. Sheeg walaxo laga helo degaankaaga oo u eg sanduuq, dhululubo ama toobin. \_\_\_\_\_

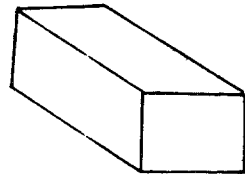
7.6 Saddexjibbaarane, Sadjibeke iyo kubbad



Saddexjibbaarane

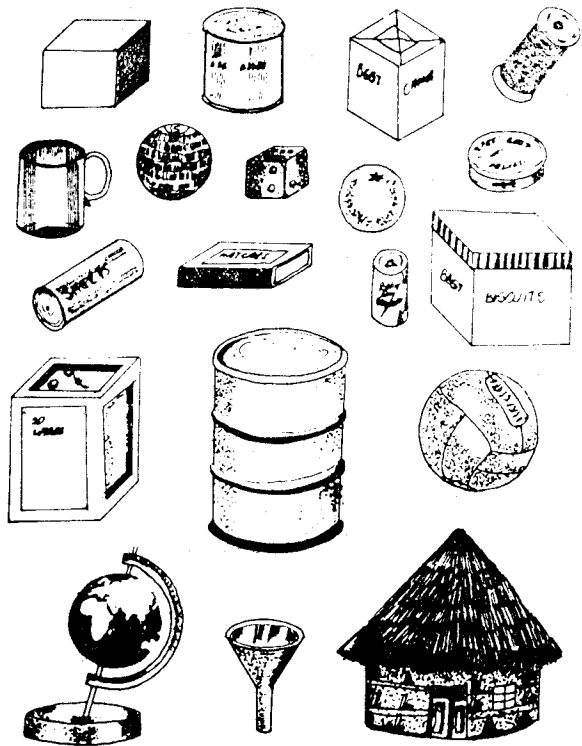


Kubbad

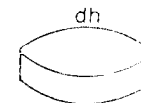
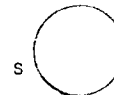
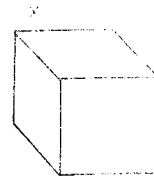
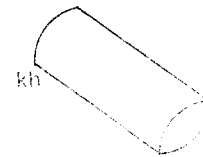
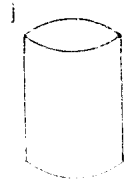
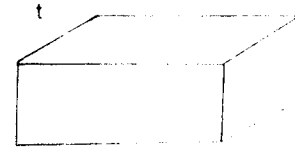


Sedjibeke

Sheeg qaababka walxaha adiga oo kooshanaya baraha.



Baraabka qaababka

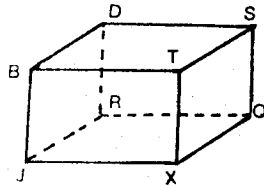


Buuxi meelaha bannaan adoo adeegsanaya shaxanada sare

1. \_\_\_\_\_ iyo \_\_\_\_\_ waa kubbad
2. \_\_\_\_\_ iyo \_\_\_\_\_ waa saddex jibbaarane
3. \_\_\_\_\_ iyo \_\_\_\_\_ waa toobin
4. \_\_\_\_\_ , \_\_\_\_\_ iyo \_\_\_\_\_ waa dhululubo
5. \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ iyo \_\_\_\_\_ waa sadjibeke

**Wejlyada, cidhifyada iyo geesaha**

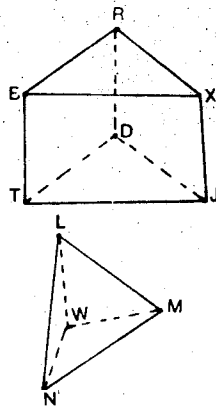
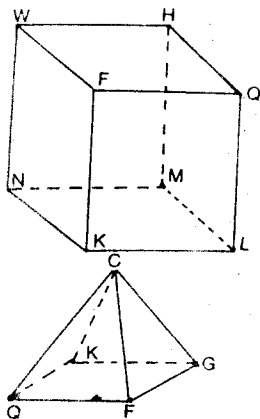
Fiiri shaxankan; waa sadjibeke



- b) Magacow geesihisa (B,T, \_\_\_\_\_)
- t) Magacaw cidhifyada (BT, TS, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_)
- j) Magacaw wejyadiisa (BTJX, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_)
- x) Sheeg tirada geesaha, tirada cirifyada iyo tirada wejyada shaxanka sare.

Magacow isla markaana sheeg tirada geesaha cirifyada iyo

wejiyada shaxan kasta.



**XISAAB**

**Xarunta Horumarinta Manaahijta, waxa ay mahad u cellnaysaa:-**

*Qorayaasha buugga.*

1. *Ibraahim Jaylaani Maxamed*
2. *Cumar Sh. Cali Ducaale*
3. *Cusmaan Sh. Aadan Xaydar*
4. *Xuseen Nuur Cabdiraxmaan*
5. *Axmed Well Sh. Cumar Good*

**Sawirrada buugga waxa u sameeyey:**

*Hodan Ammaan Sh. Cali*

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*Jim Goodall*

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*Xuseen Maxamed Imaacill.*

**Waxaa kaloo mahad gaar ahaaneed leh Kooxda Farsamada ee Xafiiska UNESCO u qaabilsan talo bixinta warbarashada Soomaaliyeed iyo habeyayaasha Sugaan daabacaadifaa labaad oo kala ah**

1. <b>BACIID AXMED XUSEEN (Baaf)</b>	LAYOUT
2. <b>MAXAMED CALI SH. BACIID</b>	"
3. <b>CABDULLAAHI MAXAMED GACAL</b>	"

**THIS MATERIAL WAS RE-EDITED AND RE-WRITTEN BY THE UNESCO TEAM E.D.C.**



United Nations Educational, Scientific  
and Cultural Organization

*This edition has been produced with the financial support of the  
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CELINAYSAA EC-SOMALIA OO SUURTA GELISAY DIB U  
DAABICIDDA BUUGGAN.



XISAAB