

262
JAMHUURIYADDA DIMOQRAADIGA SOOMAALIYA

WASAARADDA WAXBARASHADDA IYO BARBAARINTA
XAFIISKA MANAAHIJTA

XISAAB

FASALKA SADDEXAAD



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FASALKA SADDEXAAD

3

**Dhaqan hame daabecan karo lamana guurin karo iyadoo
uu Wannaradda Waxberashada iyo Barbaarinta laga belin oggolaansho.**

**Waxa lagu daabacay Madbacadde Qareenka
Xamar — 1975**

H O R D H A C

Buuggan waxa loogu talagalay ardayda fasalka sad-dexaad ee dugsiga hoose. Sida uu u ratiban yahay ama uu u qoran yahay waxa laga filayaa in uu keeno aqoonta xisaabeed ee ardayga da'daas ah i u baahan yuhay.

Buuggan waxa intiisa badan qoray iskuna soo du-bariday Cabdiraxmaan X. Cabdalle, Axmed Saciid Dii-riye, Xuseen Maxamed X. Cumar iyo Maxamed Cabdille Biriir. Waxa iyana wax ka qoray Muuse Cabdi Cilmi Bashiir Faarax Kaahiye, Cabdi Haybe Cilmi iyo Xuseen Yuusuf Aadan. Dhammaantood way mahadsan yihiiin. Waxa iyana loo mahad naqayaa dadkii garaacay, Cawil Maxamed Yaasiin oo sawirrada u sameeyey iyo Madba-cadda Qaranka oo suuragelisey inuu buuggani dhakhso u soo baxo.

*Maamulaha Xafiiska Mannahijta
Bashiir Faarax Kaahiye*

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1,000 =	kun	6,000 =	6 kun
10,000 =	10 kun	60,000 =	60 kun
100,000 =	100 kun	600,000 =	600 oo kun
1,000,000 =	hal malyuun	6,000,000 =	6 malyuun.

5,688 = Shan kun, lix boqol iyo siddeetan iyo siddeed.

15,000 = Toban iyo shan kun.

75,135 = Toddobaatan iyo shan kun, boqol iyo soddon iyo shan.

135,000 = Boqol iyo soddon iyo shan kun.

475,340 = Afar boqol iyo toddobaatan iyo shan kun, saddex boqol iyo afartan.

15,000,000 = Labaatan iyo shan malyuun.

5,855,368 = Saddex malyuun, siddeed boqol iyo konton iyo shan kun, saddex boqol iyo lixdan iyo siddeed.

Tiro walba ereyo u qor.

b)	45,162	t)	470,126	j)	113,000
x)	35,130	kh)	14,150,800	d)	13,235,412
r)	50,040	s)	215,300,000	sh)	564,100

Kalahormarinta Isugeynta

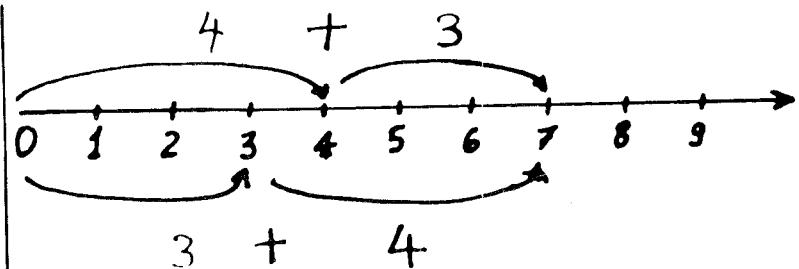
iyo waa waa

$$3 + 5 = 8$$

iyo waa waa

$$5 + 3 = 8$$

Waxaan aragnaa in $3 + 5 = 5 + 3$. Sido kale $4 + 3 = 3 + 4$. Fiiri xariiqada tirada ee hoose.



Haddii laba biiro la kala hormarsho, wadartu isma gediddo.

Layii :

Raadi wadarta :

- | | | |
|------------|------------|------------|
| b) $7 + 5$ | c) $6 + 8$ | j) $9 + 7$ |
| $5 + 7$ | $8 + 6$ | $7 + 9$ |

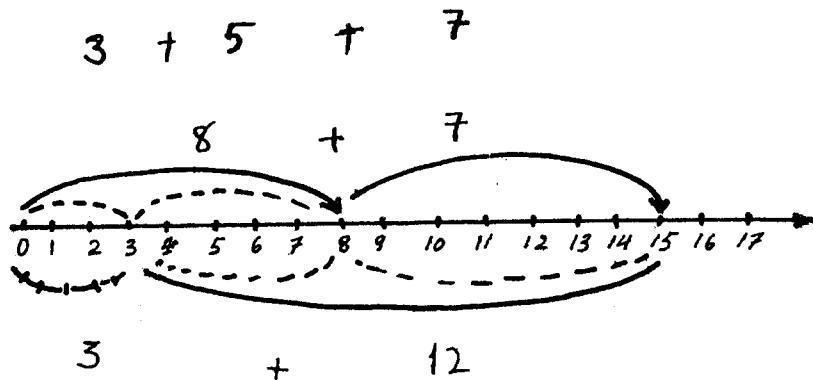
- x) $12 + 6$ d) $48 + 35$ r.) $15 + 3$
 $6 + 12$ $35 + 48$ $3 + 15$
- r.) Mar haddii $95 + 87 = 182$, waxaan ognahay in
 $87 + 95 = ?$
- s.) Mar haddii $137 + 387 = 524$; waxaan ognahay in
 $387 + 137 = ?$
- k.) Mar haddii $792 + 843 = 1635$, waxaan ognahay in
 $843 + 792 = ?$
- 2) Iisticmaal tusaha hoose oo soo saar wadaraha :
- | | |
|-------------------|-------------------|
| b) $6295 + 8934$ | r.) $8376 + 9271$ |
| t.) $6276 + 8079$ | s.) $6537 + 8756$ |
| j.) $9263 + 8476$ | k.) $7354 + 4687$ |
| x.) $9317 + 7658$ | I.) $9328 + 8654$ |
| d.) $6783 + 9265$ | m.) $8342 + 6875$ |

$8079 + 6276 = 14,355$
$8756 + 6537 = 15,293$
$8654 + 9328 = 17,982$
$9265 + 6783 = 16,048$
$4687 + 7354 = 12,041$
$8934 + 6295 = 15,229$
$6875 + 8342 = 15,217$
$7658 + 9317 = 16,975$
$9271 + 8376 = 17,647$
$8476 + 9263 = 17,739$

- 3) Raadi biirada maqan.
- b) $B + 5 = 5 + 3$
- t.) $47 + 95 = 95 + B$
- j.) $112 + B = 102 + 112$
- x.) $132 + 401 + B = 132 + 19 + 401$

Hermogelinta Isugeynta

Saddex tiro marka aan isu geynayno, marba labada aan doonno yaan ku bilaabi karnaa.



Ku bilaw labada hore ama ku bilaw labada dambe.

$$(3 + 5) + 7$$

$$8 + 7$$

$$= 15$$

$$3 + (5 + 7)$$

$$3 + 12$$

$$= 15$$

Isugeynta laba biro ka badan, si kasta oo loo hormo gelio, wadartu isma geddido.

T u s a a l e :

Isu gee, dooro hadba sida hawsha yar.

i) $18 + 2 + 5$

ii) $86 + 11 + 89$

furfuris

$86 + (11 + 89)$

i) $(18 + 2) + 5$

$86 + 100 = 186$

$20 + 5 = 25$

L a y l i :

1) Soo saar wadarta. Raac hormoglinta muujisan.

b) $(3 + 2) + 4$

$3 + (2 + 4)$

t) $(5 + 6) + 8$

$5 + (6 + 8)$

$$\begin{array}{l} j) (3 + 7) + 9 \\ \quad\quad\quad 3 + (7 + 9) \end{array}$$

$$\begin{array}{l} x) (4 + 6) + 8 \\ \quad\quad\quad 4 + (6 + 8) \end{array}$$

2) Soo saar wadarta. Dooro hadba sida hawsha yar.

b) $4 + 6 + 8$

t) $8 + 9 + 7$

j) $8 + 6 + 4$

x) $17 + 3 + 5$

d) $9 + 13 + 7$

r) $26 + 4 + 13$

s) $65 + 5 + 28$

k) $23 + 6 + 34$

l) $48 + 52 + 37$

m) $98 + 55 + 45$

n) $72 + 63 + 37$

w) $43 + 27 + 67$

,

ISUGEYN :

Xusuuso, marka tirooyin dhawr ah la isu geynayo, wa-xaan ognahay in koowaadka la isu geeyo, inta xirmo ee tobnaad ah la sito, dheeraadkana la dhigo rugta koowaadka. Tobnaadka iyo boqlaadka iyo kumaadkana sidaa oo kale ayaa la yeelaa.

TUSAALE :

B) K. B. T. K. T) Isu gee

$$\begin{array}{r} 2 \ 6 \ 1 \\ \quad 3 \ 6 \\ \hline 102 + 161 + 99 + 3651 + 700 \end{array}$$

$$\begin{array}{r} K. \ B. \ T. \ K. \\ 1 \ 0 \ 2 \\ 1 \ 6 \ 1 \\ \hline 9 \ 9 \end{array}$$

$$\begin{array}{r} 2 \ 3 \ 6 \ 0 \\ \hline 3 \ 6 \ 5 \ 1 \end{array}$$

$$\begin{array}{r} 2 \ 9 \ 4 \ 2 \text{ wadar.} \\ \hline 7 \ 0 \ 0 \end{array}$$

$$\begin{array}{r} 4 \ 7 \ 1 \ 3 \text{ wadar.} \\ \hline \end{array}$$

L a y l i :

I s u g e e :

1)	1511	2)	3126	3)	6505
	235		5301		671
	+ 7281		+ 941		+ 302
	94		96		1900
	12506		8		622
	— — —		— —		— —

- 4) $8343 + 736 + 5107 + 3815 + 4621 + 504$
- 5) $622 + 1900 + 302 + 671 + 6505 + 7000$
- 6) Axmed wuxuu gatay surwaal, kabo iyo laba buug. Surwaalku waa 75 shilin, kabuhu waa 16.50, buugtuna waa 6.70 iyo 2.35. Waa immisa lacagta ku baxday ?.
- 7) Cawil wuxuu beertiisa ka soo guray 126 xabbo oo liin ah. Waxay isku darsadeen Cabdi oo soo gurtay 1860 xabbo iyo Jaamac oo sita 9611 xabbo. Waa immisa xabbo liintooda oo dhammi ?
- 8) Lix nin oo iskaashata ah yaa beer wada falanaya, saddex waxay beertay 120 hektaar, labana waxay beertay 112 Hektaar. Kii harayna wuxuubeeray 85 Hektaar. Immisa Hektaar ayay beerten ?

K A L A G O Y N

Halka isugeyntu wax kordhisoo, kalagooyntu way dhintaa. Sidaa awgeed kalagooyntu way ka horjeeddaa isugeynta.

612 + 152	laakiin 612 - 152
waa 612	waa 612
+ 152	- 152
— — —	— — —
764 jawaab.	460 jawaab.
— — —	— — —

Kee baa yar labada jawaabood.

Waxa kale oo kalagoynta sheegtaa faraqa laba tiro u dhexeyya.

L a y l i :

Immisaan lammaane kastaa isdheer yahay ?

- | | | |
|--------------|--------------|--------------|
| b) (25,16) | t) (62,13) | j) (182,127) |
| x) (160,102) | d) (826,735) | r) (201,119) |

kala goo oo hubi jawaabta.

$$1) \begin{array}{r} 1802 \\ - 950 \\ \hline \end{array} \quad \begin{array}{r} 9080 \\ - 4683 \\ \hline \end{array} \quad \begin{array}{r} 3057 \\ - 2094 \\ \hline \end{array} \quad \begin{array}{r} 2846 \\ - 1735 \\ \hline \end{array}$$

$$2) \begin{array}{r} 1020 \\ - 836 \\ \hline \end{array} \quad \begin{array}{r} 98701 \\ - 81356 \\ \hline \end{array} \quad \begin{array}{r} 15667 \\ - 10089 \\ \hline \end{array} \quad \begin{array}{r} 1305 \\ - 1209 \\ \hline \end{array}$$

$$3) \begin{array}{r} 1111 \\ - 896 \\ \hline \end{array} \quad \begin{array}{r} 8083 \\ - 3994 \\ \hline \end{array} \quad \begin{array}{r} 7673 \\ - 3651 \\ \hline \end{array} \quad \begin{array}{r} 19002 \\ - 18923 \\ \hline \end{array}$$

- 4) Dugsiga dhallinyarada kacaanka waxa dhigan jiray 1007 raday. Waxa dhammaystay tacliintoodii 107. Immisaan ku haray ?
- 5) Guri dhisiddii ayaa 650 dhagax loogu talagalay. Dhagaxdii 56 waa la nacay, 17 kalena baabuurtii soo guray bay ka jajabeen. Immsa dhagax baa haatan taalla ?

Isugeyn iyo kalagoyn

1) Isugee

$$\begin{array}{r} 126 \\ 195 \\ + 34 \\ \hline 102 \end{array} \quad \begin{array}{r} 1961 \\ 6171 \\ + 2002 \\ \hline 1661 \end{array} \quad \begin{array}{r} 7631 \\ 381 \\ - 401 \\ \hline 1763 \end{array} \quad \begin{array}{r} 1020 \\ 1009 \\ + 8201 \\ \hline 70 \\ 80 \\ \hline \end{array}$$

2) Kala goo

$$\begin{array}{r}
 18 & 481 & 656 & 556 \\
 - 9 & - 232 & - 409 & - 398 \\
 \hline
 \end{array}$$

- 3) Waxa hanuuninta yimi 65 qof oo waayeele ah iyo 126 dhallinyara ah iyo 85 carruur ah. Waa immisa dadka hanuuninta yimi ?
- 4) Waxa xaflad ka soo qayb galay 650 arday ah iyo 158 waalid iyo 34 macallimiin ah. Immisay ardaydu ka badan tahay waalidka iyo macallimiinta.
- 5) Baabuur baa sida 871 kiintaal oo sonkor ah. Tuuladii u horreysay wuxu ku rogay 69 kiintaal. Tuuladii xigtayna wuxu ku rogay 58 kiintaal. Immisa ayuu hadda sidaa ?
- 6) Haybe wuxu haystaa 126 shilin. Wuxu rabaa in uu kabo gato, laakiin waxa ka dhiman 85 shilin iyo 8 kumi. Waa immisa qiimaha kabuhu ?
- 7) Ka shaqee
- i) $85 + 96 - 45 + 18 + 457 = 388$
 - ii) $6126 - 879 - 162 + 451 = 1081$

ISKUDHUFASHADA

U fiirso sida gaaban ee taranka loo gaarayo mar kasta.

T u s a a l e 1

Marka dhuftuhu yahay, 10, 100, 1000, iwm.

- i) $62 \times 10 = 620$
- ii) $62 \times 100 = 6200$
- iii) $62 \times 1000 = 62000$
- iv) $62 \times 10,000 = 620,000$

Tusaale 2

Marka isirradu yihin, 30, 90, 500, 700, iwm.

- i) $20 \times 30 = (2 \times 3) \times 100 = 600$
- ii) $600 \times 40 = (6 \times 4) \times 1000 = 24,000$
- iii) $700 \times 800 = (7 \times 8) \times 10,000 = 560,000$
- iv) $30 \times 20 \times 500 = (3 \times 2 \times 5) \times 10,000 = 300,000$

Layli :

Raadi taranka

- 1) 51×10
- 2) 72×100
- 3) 86×1000
- 4) 305×100
- 5) 411×1000
- 6) 70×100
- 7) 800×100
- 8) 510×100
- 9) 90×20
- 10) 700×300
- 11) 1600×900
- 12) 2800×420

Tusaale 3

Marka isirrada ay ku jiraan eberro.

i) 104×12

$$\begin{array}{r} 104 \\ \times 12 \\ \hline 208 \\ 104 \\ \hline 1248 \end{array}$$

ii) 104×235

$$\begin{array}{r} 104 \\ \times 235 \\ \hline 520 \\ 312 \\ \hline 24440 \end{array}$$

iii) 324×302

$$\begin{array}{r} 324 \\ \times 302 \\ \hline 648 \\ 972 \\ \hline 97848 \end{array}$$

iv) 7002×602

$$\begin{array}{r} 7002 \\ \times 602 \\ \hline 14004 \\ 42012 \\ \hline 4215204 \end{array}$$

Layli :

Soo saar taran kasta.

1) 401
 $\times 21$

2) 209
 $\times 90$

3) 6001
 $\times 64$

4) 1700
 $\times 103$

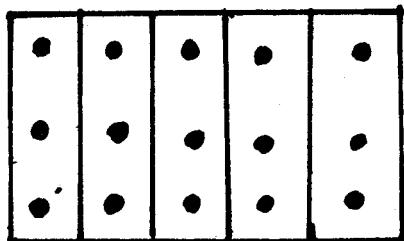
5) 2305
 $\times 647$

6) 9510
 $\times 102$

7) 30102
 $\times 202$

8) 4006
 $\times 909$

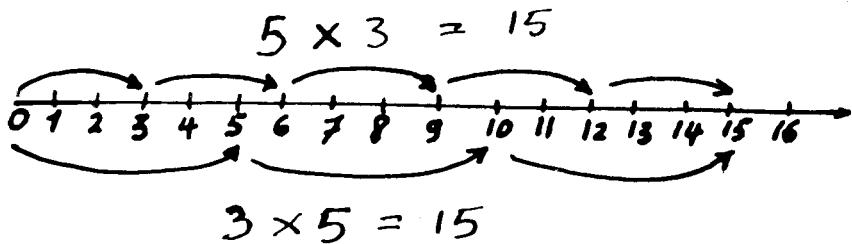
KALAHORMARINTA ISKUDHUFASHADU LEEDAHAY



$$3 \times 5 = 15$$

$$5 \times 3 = 15$$

Waxan aragnaa in $5 \times 3 = 3 \times 5$



Haddii isirrada la kala hormarsho, taranku isma geddiyo.

Leyli :

- 1) Soo saar tarannada.
- 2) 1700
103
 4006
909

AHAY
- b) 2×6 t) 11×2 j) 15×7
 6×2 2×11 7×15
- x) 121×5 d) 64×12
 5×121 12×64
- r) Mar haddii $16 \times 10 = 160$, waxan ognahay in $10 \times 16 = ?$
- s) Mar haddii $51 \times 16 = 810$, waxan ognahay in $16 \times 51 = ?$
- k) Mar haddii $121 \times 32 = 3872$, waxan ognahay in $32 \times 121 = ?$
- 2) Raadi taranka adoo isticmaalaya tusaha hoose :
- b) 92×25 k) 102×20
t) 24×84 l) 160×50
j) 47×38 m) 674×75
x) 121×15 n) 1023×66
d) 621×23 w) 621×324

15	\times	121	$=$	1815
75	\times	674	$=$	50550
84	\times	24	$=$	2016
23	\times	621	$=$	14283
20	\times	102	$=$	2040
66	\times	1023	$=$	67518
38	\times	47	$=$	1786
25	\times	92	$=$	2300
50	\times	160	$=$	8000

3) Raadi isirka maqan.

- b) $i \times 3 = 3 \times 4$ r) $161 \times 14 = i \times 161$
 t) $42 \times i = 19 \times 42$ x) $102 \times 613 = 613 \times i$

HORMOGELINTA ISKUDHUFASHADA

Saddex isir marka aan isku dhufanayno, hadba labada aan doonno yaan ku bilaabi karna.

$$3 \times 4 \times 5$$

Ku bilaw labada hore ama ku bilaw labada dambe.

$$\begin{array}{ll} (3 \times 4) \times 5 & 3 \times (4 \times 5) \\ = 12 \times 5 & = 3 \times 20 \\ = 60 & = 60 \end{array}$$

Iskudhufashada laba isir ka badan, si kasta oo loo hor-mageliyo, taranku isma geddiyo.

Tusaale :

Soo saar taranka. Dooro hadba sida hawsha yar.

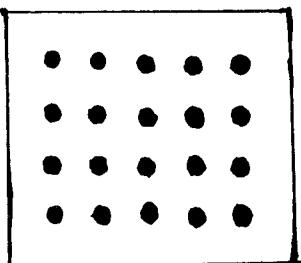
$$\begin{array}{ll} \text{i) } 5 \times 2 \times 3 & \text{ii) } 8 \times 7 \times 10 \\ \text{Furfuris} & \text{Furfuris} \\ \text{i) } (5 \times 2) \times 3 & \text{ii) } 8 \times (7 \times 10) \\ = 10 \times 3 & = 8 \times 70 \\ = 30 & = 560 \end{array}$$

L a y l i :

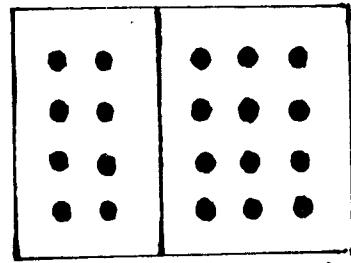
- 1) Soo saar taranka. Raac hormogelinta tusan.
- b) $(3 \times 6) \times 2$ t) $(5 \times 6) \times 8$
 $3 \times (6 \times 2)$ $5 \times (6 \times 8)$
- j) $(3 \times 7) \times 9$ x) $(3 \times 2) \times 5$
 $3 \times (7 \times 9)$ $3 \times (2 \times 5)$
- 2) Raadi taranka. Hadba hormogelinta hawsha yar raac.
- $5 \times 2 \times 4$ $2 \times 5 \times 2$ $8 \times 10 \times 5$
 $9 \times 0 \times 5$ $593 \times 497 \times 0$ $2 \times 5 \times 3$
- 3) Raadi taranka.
- b) Mar haddii $(4 \times 6) \times 3 = 72$, waxan ogna-hay in $4 \times (6 \times 3) = ?$
- t) Mar haddii $(5 \times 2) \times 2 = 70$, waxan ogna-hay in $5 \times (7 \times 2) = ?$
- j) Mar haddii $(4 \times 9) \times 6 = 216$, waxan ogna-hay in $4 \times (9 \times 6) = ?$

KALADHIGGA ISKUDHUFASHADA

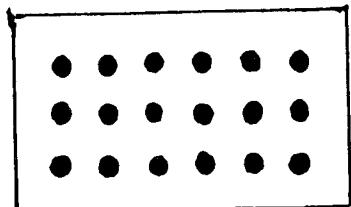
Layliyadan hoose waxay kaa taageerayaan fahamka kaladhigga iskudhufashada.



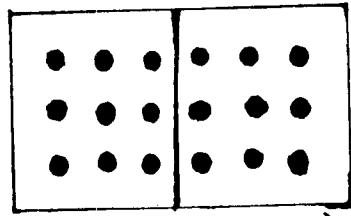
$$4 \times 5$$



$$(4 \times 2) + (4 \times 3)$$



$$3 \times 6$$



$$(3 \times 3) + (3 \times 3)$$

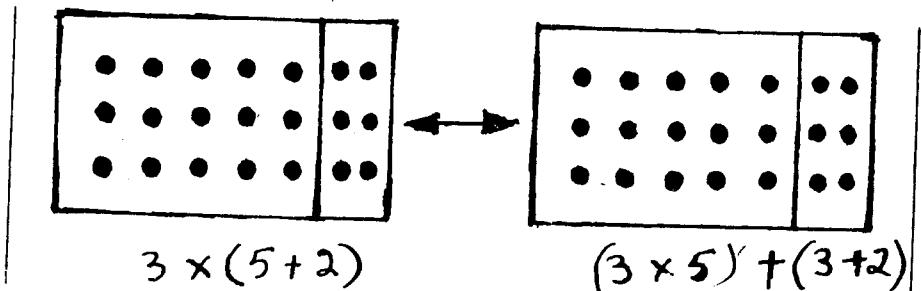
U fiirso, iskudhufashada waxa loo kala dhigay laba taran, dabadeedna waa la isu geeyey.

Tusaale :

$$3 \times (5 + 2) = (3 \times 5) + (3 \times 2)$$

$$= 15 + 6$$

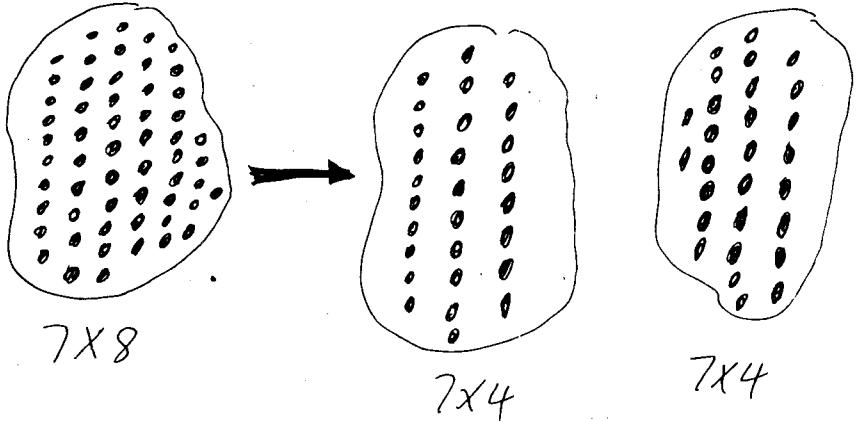
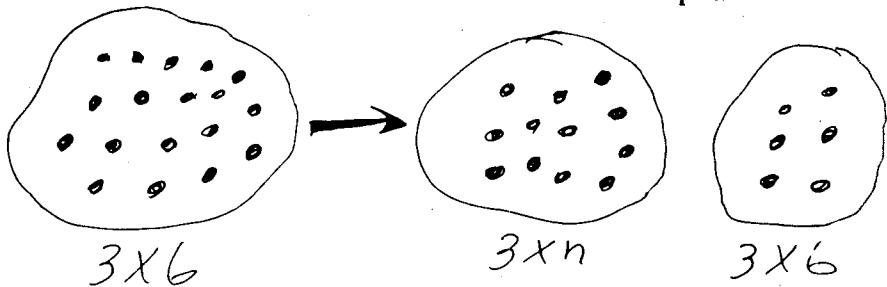
$$= 21$$



Iskudhufashadu waxay kala dhiganta marka isirrada la kala qaado ama yihiin laba biiro.

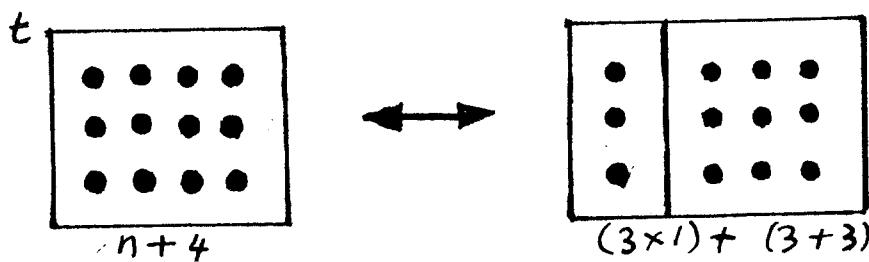
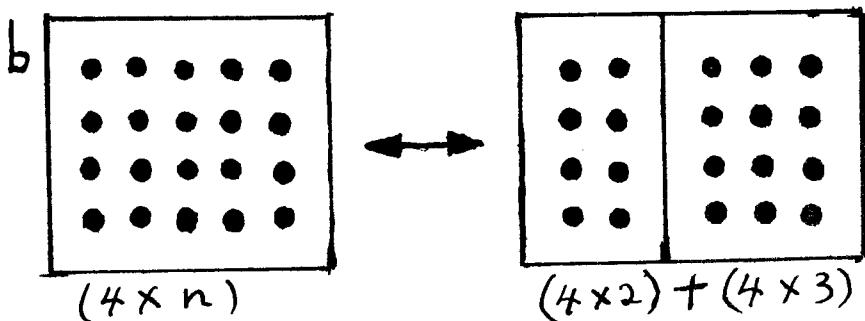
Layli :

- 1) U fiirso shaxanka oo soo saar tirada maqan.



- b) $4 \times 7 = (4 \times 4) + (4 \times 3)$
 t) $3 \times 6 = (3 \times n) + (3 \times 2)$
 j) $7 \times 8 = (7 \times 4) + (7 \times 4)$
 x) $5 \times 6 = (5 \times 4) + (5 \times 2)$
 d) $8 \times 7 = (8 \times n) + (8 \times 5)$
 r) $9 \times 11 = (9 \times 1) + (9 \times n)$

2) Raadi tirada maqan. U fiirso shaxanka.



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

3) Soo saar.

- b) $(3 \times 10) + (3 \times 2) = ?$
t) $(4 \times 10) + (4 \times 1) = ?$
j) $(6 \times 10) + (0 \times 2) = ?$
x) $(7 \times 10) + (7 \times 30) = ?$

4) Raadi tarannada.

- b) $3 \times (10 + 2)$ t) $2 \times (100 + 4)$
j) $50 \times (10 + 2)$ x) $100 \times (8 + 7)$

5) Soo saar tirada maqan.

- b) $3 \times n = (2 \times 4) + (4 \times 4)$
t) $12 \times 10 = (y \times 10) + (2 \times 10)$
j) $n \times 7 = (10 \times 7) + (3 \times 7)$
x) $13 \times n = (10 \times 7) + (3 \times 7)$

I S U Q A Y B I N

Sida qaalibka ah, marka aan laba tiro isu qaybinayno horta waxan doorannaa qayb weyn. Kaddib, waxan hadba ku daynaa qayb ka yar taa hore ilaa aan gaarno qaybta saxa ah.

T u s a a l e :

b) $16 \overline{) 293}$

t) $23 \overline{) 116}$

$$\begin{array}{r} 19 \\ 16 \overline{) 293} \\ 16 \\ \hline 133 \\ 146 \text{ ka weyn} \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ 23 \overline{) 116} \\ 161 \text{ ka weyn} \\ \hline 6 \\ 23 \overline{) 116} \\ 138 \text{ ka weyn} \\ \hline \end{array}$$

$$\begin{array}{r}
 18 \\
 16 \overline{) 293} \\
 | 16 \\
 \hline
 133 \\
 128 \text{ sax} \\
 \hline
 5
 \end{array}$$

$$\begin{array}{r}
 5 \\
 23 \overline{) 116} \\
 | 115 \text{ sax} \\
 \hline
 1
 \end{array}$$

j) 27 | 1829

$$\begin{array}{r}
 9 \\
 27 \overline{) 1829} \\
 | 243 \text{ ka weyn}
 \end{array}$$

$$\begin{array}{r}
 8 \\
 27 \overline{) 1829} \\
 | 216 \text{ ka weyn}
 \end{array}$$

$$\begin{array}{r}
 7 \\
 27 \overline{) 1829} \\
 | 189 \text{ ka weyn}
 \end{array}$$

$$\begin{array}{r}
 67 \\
 27 \overline{) 1829} \\
 | 162 \text{ sax} \\
 \hline
 209 \\
 189 \\
 \hline
 20
 \end{array}$$

L a y l i :

Qaybi

$$\begin{array}{ccc}
 1) 24 | 171 & 36 | 186 & 67 | 246 \\
 35 | 128 & 12 | 33 &
 \end{array}$$

2)	$14 \overline{) 592}$	$46 \overline{) 1624}$	$36 \overline{) 2270}$
	$63 \overline{) 3704}$	$27 \overline{) 8740}$	
3)	$77 \overline{) 5200}$	$24 \overline{) 1286}$	$33 \overline{) 9364}$
	$47 \overline{) 2773}$	$86 \overline{) 6634}$	
4)	$48 \overline{) 376}$	$96 \overline{) 182}$	$98 \overline{) 812}$
	$54 \overline{) 2430}$	$12 \overline{) 468}$	
5)	$87 \overline{) 49376}$	$34 \overline{) 86594}$	$46 \overline{) 24731}$
	$65 \overline{) 30060}$	$29 \overline{) 20000}$	

Marka laqaybshuhu yahay 10, 100, 1000 iwm. si dhaq-sa ah baa loo soo saari karaa qaybta.

T u s a a l e :

i) $160 \div 10$ waa 10 $\overline{)160}$ Laakiin a d i g a oo aan

$$\begin{array}{r} 16 \\ 10 \overline{)160} \\ -10 \\ \hline 60 \\ -60 \\ \hline 00 \end{array}$$

isuqeybinta dheer raacin baad gaari kartaa qaybta 16 ah. Waa xad haysaa $160 \div 10$. Istimaal **barta tobantleyda**. $160 \div 10 = 16.0 = 16$. Sidaas oo kale.

ii) $78 \div 10 = 7.8$ iv) $86 \div 100 = 0.86$
iii) $176 \div 10 = ?$ v) $261 \div 1000 = ?$

- iv) $300 \div 100 = 8.00 = 8$ ix) $62 \div 1000 = ?$
 iv) $126 \div 100 = 1.26$ x) $8 \div 10 = ?$
 iv) $6261 \div 1000 = 6.261$

I. a y l i :

Raadi qaybta adiga oon isticmaalin isuqaybinta dheer.

- | | | |
|-----|--|-------------------|
| 1) | $70 \div 10$ | $90 \div 10$ |
| | $800 \div 10$ | $876 \div 10$ |
| 2) | $200 \div 100$ | $870 \div 100$ |
| | $4620 \div 100$ | $786 \div 100$ |
| 3) | $962 \div 100$ | $41 \div 10$ |
| | $887 \div 1000$ | $96 \div 100$ |
| 4) | $261 \div 100$ | $134 \div 100$ |
| | $267 \div 1000$ | $2600 \div 100$ |
| 5) | $876 \div 10$ | $876 \div 100$ |
| | $876 \div 1000$ | $876 \div 10,000$ |
| 6) | $80 \div 40$ | $150 \div 50$ |
| | $3640 \div 40$ | $640 \div 80$ |
| 7) | $120 \div 60$ | $810 \div 90$ |
| | $7200 \div 900$ | $1440 \div 120$ |
| 8) | Haddii 60 reer qaybsadaan 4800 kiintaal oo galley ah, reerkiiaba intee ku soo hagaageysa ? | |
| 9) | Cabdi wuxu lee yahay 10 qalin. Qiimahooda oo dhammi waa 250 senti. Waa immisa qiimaha midku ? | |
| 10) | Waxaa wershed ka shaqeeyaa 120 qof oo isku mushara ah. Bil kasta dhammaadkeeda waxa loo soo qaa-daa 8760 shilin. Waa immisa mushahaarada qofku ? | |

T. ISKUDHUFASHO IYO ISUQAYBIN

	B	T	J	X	D	R
1)	8	63	911	304	3467	804
	× 8	× 2	× 6	× 6	× 4	× 480
2)	780	740	890	607	200	305
	× 465	× 163	× 784	× 536	× 407	× 728
3)	483	905	231	907	592	397
	× 380	× 606	× 905	× 280	× 653	× 468
4)	8 72	8 400	7 492			
	9 1809	5 7145	57 116			
5)	18 48	54 2430	87 493767			
	304 1000	715 15932				
6)	10 39.8	10 98.3	100 250			
	100 4.367	10 2436				
7)	100 21.5	1000 6317	1000 356.5			
	100 175	100 2407				
8)	10 639	1000 26.342	1000 34			
	10 35	100 15.1				
9)	Waxa fasal ku jira 43 arday. Midkii walba waxa la siiyey 1 qalin iyo 2 buug. Waa immisa tirada alaabta ardayda la siiyey oo dhammi ?					

- 10) Immisa shaati oo midkiiba qiihiisu yahay 8/- ayaa 56 shilin gadhi kartaa ?
- 11) Caasha waxay 6 ashun ka bixisey 21.60 shilin. Waa immisa qimaha hal ashun ?
- 12) Immisa kuumi weeye ₦ 4 ?
- 13) Qiimaha 1 kiilo oo subag ahi waa 1.75 shilin. Waa immisa qimaha 13 kiilo ?
- 14) Iskaashato 10 qof ah ayaa waxay qaybsadeen beer ah 2954 m^2 . Immisaa qofkiiba heley ?

C E L C E L I S

Dugsi baa u baahday in deyr loo dhiso. Haddii ardayda dugsiga ku jirta iskaa wax u qabso ay ku dhistaan deyrka wa-xa laga rabaa arday walba in 40 xabbo oo bulukeeti ah uu sameeyo. Axmed oo ardayda dugsiga ka mid ah wuxuu isyiri, «haddii casho walba 8 xabbadood oo bulukeeti ah aan sameeyo, 5 casho ayay igu qaadanaysaa. Maanta oo Axad ah haddii aan bilaabo, Khamiista baan dhammadayn.

Axmed casho walba waqtii isku mid ah oo shaqada uu ku qabto muu helin. Maalin walba siduu waqtii u helo ayuu shaqada u qabtaa. Axaddii 4 xabbo ayuu sameeyay, Isniintiina 6 xabbo, Talaadadiina 6 xabbo, Arbacadiina 12 xabbo, Khamiistiina 12 xabbo.

- 1) Samayntii bulukeetiga Axmed 5 beri ma ku dhammeyay ?
- 2) Beri walba, Axmed ma 8 xabbo ayuu sameeyay ?
- 3) Immisa xabbo ayuu Axmed 5 beri sameeyay ?
- 4) Immisa xabbo ayuu samayn lahaa haddii cashadiiba 8 xabbo uu sameeyo ?

In kasta oo Axmed aanu cashadiiba 8 xabbo samaynin haddana 40kii xabbadood 5tii beri wuu ku dhammeyey. Si-daas darteed Axmed isku celceli maalintiiba 8 xabbo ayuu sa-

maynaayay. Taas oo ah isugeyn dhammaan bulukeetigii uu sameeyey Axmed markaasna loo qaybiyo inta beri ee ay ku qaadatay.

$$\begin{aligned}
 & \text{wadarta tirada bulukeetiga} \\
 \text{Celcelis} = & \frac{\text{tirada maalmaha ay ku qaadatay}}{4 + 6 + 6 + 12 + 12} \\
 = & \frac{40}{5} \\
 = & 8 \text{ xabbadooood oo bulukeeti ah.}
 \end{aligned}$$

T u s a a l e :

Dhererka Caasha wuxuu yahay 90 cm, Maryanna waa 110 cm, Canabna waa 100 cm. Soo saar isku celceliska dherkooda ?

F u r f u r i d :

Isugeynta dhererrada :

$$= 90 \text{ sm, } + 110 \text{ sm } + 100 \text{ sm } = 300 \text{ sm.}$$

Tirada dadka = 3 hablood.

$$\begin{aligned}
 & \text{wadarta dhererrada} \\
 \text{Celcelis} = & \frac{\text{tirada dadka}}{300 \text{ sm}} \\
 = & \frac{300 \text{ sm}}{3} \\
 = & 100 \text{ sm}
 \end{aligned}$$

T u s a a l e :

Tirada ardayda fasalka koowaad waa 155, fasalka labaadna waa 225 arday, fasalka saddexaadna waa 160 arday. Maraka la isku celceliyo waa immisa tirada ardayda ee fasal walba ku jirta ?

F u r f u r i d :

Dhammaan tirada ardayda = $155 + 225 + 160 = 540$
Tirada fasallada = 3 fasal

$$\text{Celcelis} = \frac{\text{wadarta tirada ardayda}}{\text{tirada fasallada}}$$
$$= \frac{540}{3}$$
$$= 180 \text{ arday}$$

L a y l i :

I) Soo saar celceliska tirooyinka.

- 1) 5, 7, 9, 10, 4.
- 2) 8, 6, 3, 5, 13, 7
- 3) 36, 21, 15, 228
- 4) 12, 13, 14, 15, 16
- 5) 24, 16, 18, 22

II) Furfur laylisayan :

- 1) Dugsi sare ayaa fasalka koowaad waxaa ku jira 52 arday, fasalka labaadna waa 46 arday, fasalka saddexaadna 38 arday, fasalka afraadna 48. Soo saar isku celcelis fasalkiiba inta arday ee ku jirta.
- 2) Xuseen wuxuu shaqaystay afar jimce. Jimce wuxuu heley 30 shilin, midna 20 shilin, midna 35 shilin,

midna 15 shilin. Isku celceliskii Jimcihiiba immisa shilin ayuu helay ?

- 3) Cali miisaankiisu waa 110 kg. Cabdi waa 125 kg. Caashana waa 115 kg Canabna waa 105 kg. Cumarna waa 130 Kg. waa maxay miisaankooda celcliska ahi ?
- 4) 3 wiil miisaankoodii wuxuu noqday 180 kg. Isku celcelis miisaankoodu waa intee ?
- 5) Beer baa 105 geed ay ka beereen guulwadayaal muddo 3 saacadood ah. Isku celcelis immisa geed ayay saacaddiiba beereen ?
- 6) Cumarimtiixaankiisi xisaabta wuxuu keenay 62%, juqraafiqiina 58%, taariikhdiina 72%. Isku celcelis maaddadiiba intee buu keenay ?
- 7) Afar xaas oo meel ku wada nool, tirada curruurtood waxay tahay 5, 2, 6, 7. Isku celcelis xasakiiba carruurtiisu waa intee ?
- 8) Faarax miisaankiisu waa 81 kg. R o o b l e n a waa 77 kg, Raabina waa 72 kg, Daahirna 82 kg. Meeqa waaye miisaankoodu markaleysku celceliyo ?
- 9) Soo saar isku celceliska tirooyinka hoos ku yaal.
 - a) 2, 4, 6, 8.
 - b) 1, 3, 5, 7.
 - t) 11, 13, 15, 17, 19.
 - j) 12, 14, 16, 18, 20.
 - x) 11, 12, 15, 16, 19, 20, 16.

TIRO DHABAN IYO TIRO KISI

Tirada Idili-waxay u kala baxda laba urur :

Tiro dhaban	0	2	4	6	8	10	12
Tiro kisi	1	3	5	7	9	11	13

Tiro Dhaban waa ururka 0, 2, 4, 6, 10, 12, 14, . . . waana tiro haddii loo qaybiyo 2 haraageedu yahay eber.

Had iyo jeer tiro dhabantu waxay ku dhammaataa god u qaybsama 2 ama 0.

Tiro kisigu waa ururka 1, 3, 5, 7, 9, 13, . . . waana tiro haraa yeelanaysa marka loo qaybiyo 2.

T u s a a l e 2

18 tiro dhaban ma tahay

F u r f u r i s :

U qaybi 2,

$$18 \div 2 = \begin{array}{r} 9 \\ 2 \overline{)18} \\ -18 \\ \hline 0 \end{array}$$

Sidaas awgeed 18 waa tira dhaban.

T u s a a l e 2

19 tiro kisi ma tahay ?

F u r f u r i s :

U qaybi 2,

$$\text{Markaas } 19 \div 2 = \begin{array}{r} 9 \\ 2 \overline{)19} \\ -18 \\ \hline 1 \end{array}$$

1 haraa way leedahay.

Sidaas awgeed 19 waa tiri kisi.

Layli :

- 1) Fiiri tusaalaha hoos ku qoran sidaas oo kalena u bu-
~~xi~~ meelaha bannaan :

Tusaale :

43 waxa u dambeeyaa 3 oo kisi ah markaas 43 waa tiro **kisi**. 76 waxa u dambye 6 oo dhaban ah markaas 76 waa **tiro dhaban**.

- a) 24 waxa u dambeeye ----- markaas waa tiro -----.
- b) 42 » » » ----- » » » -----.
- c) 27 » » » ----- » » » -----.
- d) 36 » » » ----- » » » -----.
- e) 53 » » » ----- » » » -----.
- f) 60 » » » ----- » » » -----.
- g) 71 » » » ----- » » » -----.
- h) 15 » » » ----- » » » -----.
- i) 88 » » » ----- » » » -----.
- j) 69 » » » ----- » » » -----.

- 2) Labadan eray ee ah dhaban iyo kisi midkood ku bu-uxi meelaha bannaan :

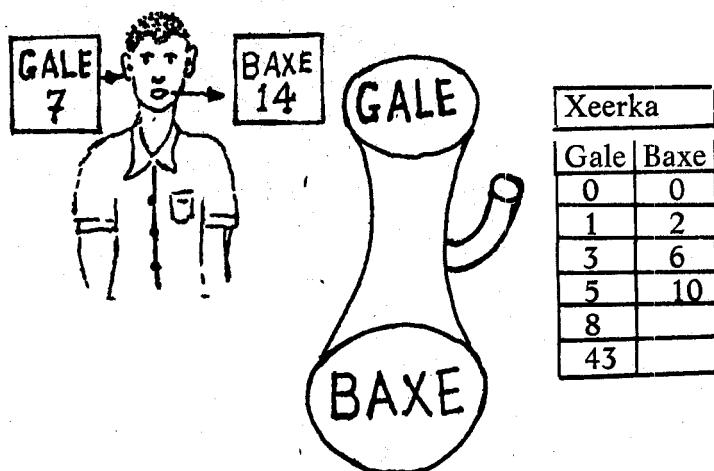
- a) Tiro waa ----- haddii ay ku dhammaato 0, 2, 4, 6 ama 8.
- b) Tiro waa ----- haddii ay ku dhammaato 1, 3, 5, 7 ama 9.

- 3) Tirooyinka hoos ku qoran kala sheeg dhaban iyo kisi kay yihiin :

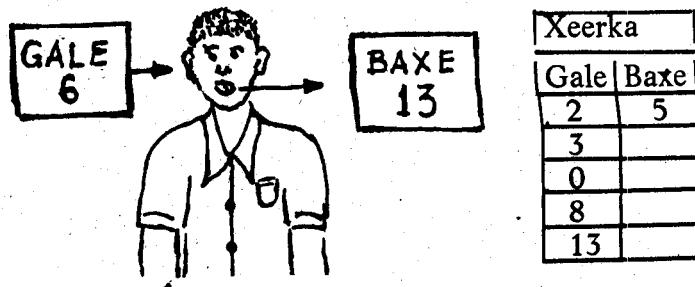
- a) 74 (b) 909 (t) 527 (j) 1,000
- x) 9218 (d) 111

r) 6425 (s) 94102 (c) 7006 (f) 20149

- 4) Makiinadda hilibka yar yaraysa ee hoos ku sawiran xeerkay ku shaqaynayo qor. Markaasna buuxi tu-saha hoos ku yaal :



- 5) Mar labaad sawir inanta iyo makiinadda hilibka yar yareesa.



- 6) Soo saar wadarta ama taranka tirooyinkan, markaasna qor in ay yihiin tiro dhaban ama tiro kisi.

a)

6	12	10	38	24	24
+ 8	+ 14	+ 20	+ 24	+ 30	- - -
—	—	—	—	—	—

wadarta laba tiro oo dhaban ahi waa tiro ——.

$$\begin{array}{r} b) \quad 5 \quad \quad \quad 3 \quad \quad \quad 11 \quad \quad \quad 49 \quad \quad \quad 71 \\ + 7 \quad \quad + 9 \quad \quad + 27 \quad \quad + 63 \quad \quad + 43 \\ \hline \quad \end{array}$$

wadarta laba tiro oo kisi ahi waa tiro ——.

$$\begin{array}{r} t) \quad 4 \quad \quad \quad 5 \quad \quad \quad 35 \quad \quad \quad 48 \quad \quad \quad 75 \\ + 3 \quad \quad + 6 \quad \quad + 14 \quad \quad + 23 \quad \quad + 46 \\ \hline \quad \end{array}$$

wadarta tiro dhaban iyo tiro kisi waa tiro ——.

$$\begin{array}{r} j) \quad 4 \quad \quad \quad 12 \quad \quad \quad 38 \quad \quad \quad 42 \\ \times 6 \quad \quad \times 2 \quad \quad \times 10 \quad \quad \times 14 \\ \hline \quad \end{array}$$

Taranka laba tiro oo dhaban ahi waa tiro ——.

$$\begin{array}{r} x) \quad 7 \quad \quad \quad 6 \quad \quad \quad 12 \quad \quad \quad 23 \quad \quad \quad 65 \\ \times 4 \quad \quad \times 3 \quad \quad \times 5 \quad \quad \times 8 \quad \quad \times 2 \\ \hline \quad \end{array}$$

Taranka tiro dhaban iyo tiro kisi waa tiro ——.

$$\begin{array}{r} d) \quad 7 \quad \quad \quad 15 \quad \quad \quad 63 \quad \quad \quad 49 \\ \times 3 \quad \quad \times 9 \quad \quad \times 5 \quad \quad \times 1 \\ \hline \quad \end{array}$$

Taranka laba tiro oo kisi ahi waa tiro ——.

7) Meelaha madhan ku qor dhaban ama kisi :

- a) wadarta tiro kisi iyo 1 waa tiro ——.
- b) Taranka tiro kisi iyo 1 waa tiro ——.
- t) wadarta tiro dhaban iyo 1 waa tiro ——.
- j) Taranka tiro dhaban iyo 1 waa tiro ——.
- x) Ma jirto tiro —— oo ka yar 1.
- d) Tiro —— kastaba way ka weyn tahay 1.
- r) Waxa jira laba tiro —— oo ka yar 3.

- s) Waxa jira hal tiro —— oo ka yar 3.
- c) Wadarta 0 iyo tiro kisi waa tiro ——.
- f) Taranka 0 iyo tiro kisi waa tiro ——.
- q) Wadarta tiro dhaban iyo 0 waa tiro ——.
- k) Taranka tiro dhaban iyo 0 waa tiro ——.
- l) Wadarta laba tiro kisi waa tiro ——.
- m) Taranka laba tiro kisi waa tiro ——.
- n) Wadarta tiro kisi iyo tiro dhaban waa tiro ——.
- w) Taranka tiro kisi iyo tiro dhaban waa tiro ——.

DHUFSANEYAAL

X	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	...	
A	2	0	2	4	6	8	10	12	14	16	18	20	22	24	26	28	...
B	3	0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	...
T	4	0	4	8	12	16	20	24	28	32	36	40	44	48	52	56	...
J	5	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	...

- Tirooyinka dhinactaxa A, $\{0, 2, 4, 6, 8, \dots\}$ waa dhufsanyaasha 2.
- Tirooyinka dhinactaxa B, $\{0, 3, 6, 9, 12, \dots\}$ waa dhufsanyaasha 3.
- Tirooyinka dhinactaxa T, $\{0, 4, 8, 12, 16, \dots\}$ waa dhufsanyaasha 4.
- Tirooyinka dhinactaxa J, $\{0, 5, 10, 15, 20, \dots\}$ waa dhufsanyaasha 5.

T u s a a l e :

$$3 \times 4 = 12.$$

Taranka 3 iyo 4 waa 12. Markaas 12ku waa dhufsaneha 3 isla markaasna 12ku waa dhufsaneha 4. Sidaas darteed 12ku waa dhufsaneha 3 iyo 4ba.

L a y l i :

- I) Raadi tirooyinka maqan :
 - b) 12 waa dhufsanaha 2 sabatoo ah $2 \times 6 = ?$
 - t) 15 waa dhufsanaha 3 sababtoo ah $? \times 5 = 15$.
 - j) Haddii $6 \times 7 = 42$ markaas ? waa dhufsanaha 6.
 - x) Haddii $? \times 8 = 24$ markaas 24 waa dhufsanaha 3.

- II) b) Qor dhufsaneyaasha 6 (ilaa 78).
 - t) Qor dhufsaneyaasha 7 (ilaa 91).
 - j) Qor dhufsaneyaasha 8 (ilaa 104).
 - x) Qor dhufsaneyaasha 9 (ilaa 117).
 - kh) Qor dhufsaneyaasha 10 (ilaa 130).

- III) Raadi tirada maqan :
 - b) Haddii $2 \times 3 = 6$ markaas 6 waa dhufsanaaha 2 iyo ?.
 - t) Haddii $4 \times 5 = 20$ markaas ? waa dhufsanaaha ? iyo 5.
 - j) Haddii $6 \times 7 = 42$ markaas ? waa dhufsanaaha 6 iyo ?.
 - x) Haddii $? \times ? = 72$ markaas ? waa dhufsanaaha 8 iyo 9.
 - kh) Haddii $5 \times 8 = ?$ markaas 40 waa dhufsanaaha ? iyo ?.
 - d) Haddii $? \times 9 = 36$ markaas ? waa dhufsanaaha 4 iyo ?.
 - r) Haddii $3 \times ? = 21$ markaas ? waa dhufsanaaha ? iyo ?.
 - s) Haddii $2 \times ? = ?$ markaas 12 waa dhufsanaaha ? iyo 6.
 - f) Haddii $? \times 7 = ?$ markaas 35 waa dhufsanaaha 5 iyo ?.

I S I R R A D A

2 iyo 3 waa
isirrada 6

$2 \times 3 = 6$
↑ ↑ ↑

6 waa dhufsanaha
2 iyo 3ba.

$2 \times 3 = 6$ waxaynu ka soo saari karnaa weedhaha hoos ku

qoran :

2 waa isirka 6

3 waa isirka 6

6 waa taranka isirka 2 iyo 3.

6 waa dhufsanaha 2

6 waa dhufsanaha 3

Markaynnu leenahay 6 waa dhufsanaha 2 waxaynu u jeednaa
6 loo qaybiyey 2, haraagu waa 0.

Raadi taranka isirrada : $3 \times 4 = ?$

Si aynu u helno taranka isirrada 3 iyo 4 waa in aynu sa-
meynaa teed tiro sida ka hoos ku yaal. Teedkani 3 dhinac-
tax iyo 4 joogutax buu leeyahay . . .

• • •
• • •

Teedkaasu wuxuu ina tusayaa in taranka isirrada 3 iyo 4 uu
yahay 12. Sidaas darteed $3 \times 4 = 12$. Sidaas oo kale u
fiiri isirrada :

.
 1×12

.
.

2×6

.
.

3×4

Dhammaan teedyadaas t a r a n k a isirradoo du waa 12.
Markaas $1 \times 12 = 12$ isla markaas $2 \times 6 = 12$ isla markaas
 $3 \times 4 = 12$. Sidaas awgeed 1 iyo 12 waa isirrada 12, 2 iyo
6 waa isirrada 12, 3 iyo 4 waa isirrada 12.

L a y l i :

- 1) Meelaha bannaan ku buuxi tirada ka maqan :
- b) 4 waa isirka 20 sababtoo ah $4 \times 5 = ?$.
- t) 5 waa isirka 20 sababtoo ah $4 \times 5 = ?$
- j) 2 waa isirka 20 sababtoo ah $2 \times 10 = ?$.
- x) 2 waa isirka 20 sababtoo ah $2 \times 10 = ?$.
- kh) 20 waa isirka 20 sababtoo ah $? \times 20 = 20$
- d) ? iyo ? waa isirrada 21 sababtoo ah $3 \times 7 = 21$
- r) Lixda isir ee 12 waa : 1, ?, ?, 4, ?, ?.
- s) Haddii $2 \times 9 = 18$ markaas ? iyo ? waa isirrada 18.
- sh) Haddii $42 \div 7 = 6$ markaas ? iyo ? waa isirrada 42.
- dh) Haddii $72 \div 8 = 9$ markaas ? iyo ? waa isirrada 72.

II

- b) Haddii $3 \times 8 = 24$ ama $2 \times 12 = 24$,
qor isirrada kale ee 24 ?
- t) Haddii $4 \times 5 = 20$ ama $2 \times 10 = 20$,
qor isirrada kale ee 20 ?
- j) Haddii $1 \times 12 = 12$ ama $2 \times 6 = 12$,
qor isirrada kale ee 12 ?
- x) Qor isirrada 14
- kh) Qor isirrada 16
- d) Qor isirrada 36
- r) 1 ma ka mid tahay isirrada 7 ?
- s) 0 ma ka mid tahay isirrada 5 ?

- sh) Isirka ugu weyn ee 20 leedahay waa maxay ?
- dh) Qor isirrada 21.
- III Buuxi meelaha madhan ee hoos ku yaal :
- b) Haddii tiro ay tahay dhufsanaha 2, waa in ay ku dhammaata rugaha ?, ?, ?, ?, ama? midkood.
- t) Haddii tiro ay tahay dhufsanaha 5, waa in ay ku dhammaata rugaha ? ama ?.

T I R O M U T U X A N

Tiro	Tibaax Taran	Teed
2	1 × 2	..
3	1 × 3	...
5	1 × 5
7	1 × 7
11	1 × 11
13	1 × 13
17	1 × 17
19	1 × 19

Waxa innooga muuqata tirooyinka kor ku qoran in teed-koodu uu ka kooban yahay hal dhinactax. Tirooyinka teed-koodu sidaas oo kale uu yahay, isirradeedu waxay yihiin kow (1) iyo tirada lafteeeda. Markaas tirada isirradeedu ay yihiin 1 iyo tirada lafteeeda, labadaas oo qudha, waxa la yiraa tiro mutuxan. Sidaas darteed, hormada :

$\{2, 3, 5, 7, 11, 13, 17, 19, 23\}$ waa tirooyin mutuxan.

Tusaale :

31 ma tahay tiro mutuxan ?

Furfuris :

Isirrada 31 waxay yihiiin 1 iyo 31 taas oo ah tirada laftee-dii iyo kow. Kol haddii isirrada 31 ay yihiiin kow iyo tirada lafteeedii markaas 31 waa tiro mutuxan.

Tirooyinka kow ka weyn isla markaas isirradoodu kow iyo laftooda ay ka badan yihiiin waxa la yiraa tiro farcan.

Hormada $\{4, 6, 8, 9, 10, 12, \dots\}$ waa tirooyin farcan

sababtoo ah isirradoodu way ka badan yihiiin 1 iyo laftooda sida : $4 \times 1 = 4$ ama $1 \times 2 \times 2 = 4$, $6 \times 1 = 6$ ama $1 \times 2 \times 3 = 6$, $8 \times 1 = 8$ ama $1 \times 2 \times 4 = 8$, $9 \times 1 = 9$ ama $1 \times 3 \times 3 = 9$ iwm.

Tusaale :

14 ma tahay tiro farcan ?

$14 \times 1 = 14$ ama $1 \times 2 \times 7 = 14$. Kol haddii isirrada 14 ay ka bateen kow iyo tirada qudhideeda markaas 14 waa tiro farcan.

Waxa kale oo aad garan karta tiro mutuxan, marka aad ka saarto tirada 2, in ay tahay tiro kisi. Waxa iyaduna jirta in tirada 1 ay tiro walba u tahay isir, weliba 1 tiro mutuxan iyo tiro farcan midna maaha.

Layli :

- I Qor tiro Idil adigoo ka bilaabaya 2 ilaa 25. Marka hore, muuji tirada mutuxan ee ku jirta tirooyinkaas aad dhigtay. Marka labaad gaar ahaan u muuji tirada farcan.
- II Ka jawaab su'aalahaan hoos ku yaal :
- b) 33 ma tiro mutuxan baa ? waayo ?
 - t) Maxay 37 u noqotay tiro mutuxan ?
 - j) Maxay 35 u noqon weyday tiro mutuxan ?
 - x) 24 ma tiro farcan baa ? waayo ?
 - kh) Min 2 ilaa 35 immisa tiro ayaa ah tiro dhaban ah ?
- III Tax inta tiro mutuxan ku jirta ilaa 61da tirada idil
- IV Buuxi meelaha madhan ee hoos ku yaal :
- b) Tirada ---- waa isirka tiro kastaba.
 - t) Tiro mutuxan oo kastaba waxay leedahay ----- isir.
 - j) Isirrada tiro mutuxan waa tirada qudheeda iyo -----.
 - x) Tirada ---- waxay leedahay dhawr isir.
 - kh) Haddii tiro ay leedahay wax ka badan laba isir, ma aha tiro ----.
- V Tirooyinka hoos ku qoran, raadi isirradooda :
- b) 15
 - t) 27
 - j) 50
 - x) 36
 - kh) 60.
 - d) 25

ISIRRO MUTUXAN

Waxaynu ognahay in tiro farcan oo kastaba isirradeedu ay ka badan yihiiin 1 iyo tirada qudheeda. Metelan 24 isirrada ay leedahay waxay yihiiin :

- 1) $24 = 1 \times 24$
- 2) $24 = 2 \times 12$
- 3) $24 = 3 \times 8$
- 4) $24 = 4 \times 6$

Si kale haddii aynu u qorno waxay noqonaysaa :

1) 24	2) 24	3) 24	4) 24
1 24	2 12	3 8	4 6

Taasi waxay tahay 1 2 3 4 6 8 12 24

Tusaalah (2) labada siyood ee hoos ku yaal ayuu u kala bixi karaa :

2) 24	ama	24
2×12		2×12
$2 \times 2 \times 6$		$2 \times 3 \times 4$

Waxaad arki karta in labada siyood ee kor ku qoran, in 6da iyo 4ta ay sii kala bixi karaan sida :

24	ama	24
2×12		2×12
$2 \times 2 \times 6$		$2 \times 3 \times 4$
$2 \times 2 \times 2 \times 3$		$2 \times 3 \times 2 \times 2$

Hadda waxaynu 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. Haddii tusaalooyinka (3) iyo (4) aynu soo saarno isirradoodaa mutuxan waxay noqonayaan :

$$3) \quad 24$$

$$3 \times 8$$

$$3 \times 2 \times 4$$

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

$$4) \quad 24$$

$$4 \times 6$$

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

Si kastaba ha loo doono isirradada mutuxan ee 24, hubaashu waxay tahay in $24 = 2 \times 2 \times 2 \times 3$. Taasi waxay na tusaysaa in isirka mutuxan uu ku dambaynaayo tiro mutuxan. Kalahormarinta iskudhufashada awgeed qiime ma laha kalahormarinta isirradada 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 $2 \times 2 \times 3 \times 2$.

Tusaale 1

Soo saar isirradada mutuxan ee 36 ?

$$36 \quad \text{ama} \quad 36 \quad \text{ama} \quad 36$$

$$2 \times 18 \quad 4 \times 9 \quad 3 \times 12$$

$$2 \times 2 \times 9 \quad 2 \times 2 \times 3 \times 3 \quad 3 \times 3 \times 4$$

$$2 \times 2 \times 3 \times 3 \quad 3 \times 3 \times 2 \times 2$$

$$\text{ama } 36 = 2 \times 2 \times 3 \times 3$$

Tusaale 2

Raadi isirradada mutuxan ee 56 ?

$$56 = 2 \times 28$$

$$= 2 \times 2 \times 14$$

$$= 2 \times 2 \times 2 \times 7$$

$$56 = 2 \times 2 \times 2 \times 7$$

Tusaale 3

Raadi isirrada mutuxan ee 1260

$$2 \mid 1260$$

$$2 \mid \underline{630}$$

$$3 \mid \underline{315}$$

$$3 \mid \underline{105}$$

$$5 \mid \underline{35}$$

$$7 \mid \underline{7}$$

$$\underline{1}$$

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

Layli :

- 1) Tirooyinka hoos ku yaal raadi isirradooda mutuxan:
b) 42 t) 45 j) 50 x) 72 kh) 90
- 2) Soo saar isirrada mutuxan ee 30 iyo 42 ay wadaagaan.
- 3) Weedha $54 = 2 \times 3 \times 9$ miyay tahay isirrada mutuxan ee 54 ? Waayo ?
- 4) b) Wadarta laba tiro oo mutuxani waa 10, tarankooduna waa 21. Qor labada tiro.
t) Faraqa u dhexeeyaa laba tiro oo mutuxan waa 2, wadartooduna waa 6. Qor labada tiro.
- 5) b) Qor isirrada mutuxan ee ay wadaagaan 18 iyo 26.
t) Raadi isirrada mutuxan ee 144 ?
- 6) Waa maxay isirrada mutuxan oo ay wadaagaan 14 iyo 49 ?.

ISIR WEYNAHA WADAAGAAN (I.W.W.)

Tiro farcan oo waliba waxay leedahay isirro mutuxan oo u gaar ah. Markaas laba tiro oo farcan haddii aynu hay-sanno, waynu soo saari karnaa isir weynaha ay wadaagaan labada tiro. Isir weynaha ay wadaagaan laba tiro waxa weeye tirada ugu weyn ee labada tiroba ay u qaybsamaan haraa la'aan. Haddii aynu soo saarayno isir weynaha ay wadaagaan (I.W.W.) 24 iyo 36, waa in labada tiroba isirradeeda mutuxan aynu raadinnaa, sida :

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

$$36 = 2 \times 2 \times 3 \times 3$$

Markaas waxaynu gooni ula baxaynaa isirrada mutuxan ee labadeena tiro ay wadaagaan. Taasoo aan ka ogaanayno in labada tiro ay $2 \times 2 \times 3 = 12$ wadaagaan. Sidaas darteed $2 \times 2 \times 3 = 12$. Waxa iska cad markaas in 12 ay tahay tirada ugu weyn ee 24 iyo 36 u wada qaybsamaan haraa la'aan. Sidaas awgeed 12 waa isir weynaha ay wadaagaan 24 iyo 36.

Tusaale 1

Raadi I.W.W. 90 iyo 225 ?

Furfuris :

$$90 = 2 \times 3 \times 3 \times 5$$

$$225 = 3 \times 3 \times 5 \times 5$$

Isirrada ay wadaagaan waa : $3 \times 3 \times 5$

Isir weynaha ay wadaagaan = 45

Tusaale 2

Soo saar I.W.W. 126 iyo 441 ?

*

Furfuris :

$$126 = 2 \times 3 \times 3 \times 7$$

$$441 = 3 \times 3 \times 7 \times 7$$

Isirrada ay wadaagaan waa : $3 \times 3 \times 7$
Isir weynaha ay wadaagaan = 63

L a y l i :

- 1) Adigoo isticmaalaaya xeerarkii qaybta, raadi tirooyinka u qeybsama 2,3 ama 5 :--
b) 69 t) 273 j) 515 x) 3570
- 2) Soo saar dhammaan isirrada mutuxan ee tirooyinka hoos ku yaal :
b) 27 t) 72 j) 81 x) 100 kh) 154
- 3) 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 ?
d) Waa maxay I.W.W. 12, 18 iyo 42 ?
- 4) Soo saar I.W.W. 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)
- 5) 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).

DHUF SANE YARAHA AY WADAAGAAN (Dh. Y. W.).

Horey waxaynu u soo dhiganay dhufsanayaasha tirooyinka. Bal xasuus ahaan aan fiirinno dhufsanayaasha 2 iyo 3. Dhufsanayaasha 2 waxa weeye :

$$\left\{ 2, 4, 6, 8, 10, 12, 14, 16, 18, \dots \right\}.$$

Dhufsanayaasha 3 waxa weeye :

$$\left\{ 3, 6, 9, 12, 15, 18, 21, \dots \right\}.$$

Labada urur ee dhufsanayaasha 2 iyo 3 waxaa **dhextaal** u ah

ururka $\left\{ 6, 12, 18, 24, \dots \right\}$ kaasoo la yiraa ururka dhuf-

sanayaasha 2 iyo 3 ay wadaagaan. Tusaale kale haddaynu u qaadanno 4 iyo 6, dhufsanayaasha 4 waa :

$$\left\{ 4, 8, 12, 16, 20, 24, 28, 32, 36, \dots \right\}.$$

Dhufsanayaasha 6na waa $\left\{ 6, 12, 18, 24, 30, 36, \dots \right\}.$

Markaa dhufsanayaasha ay wadaagaan waa :

$$\left\{ 12, 24, 36, \dots \right\}.$$

Tusaalooyinka sare waxay inoo muujinayaan in laba ama dhawr tiro oo kastaba ay leeyihii dhufsanayaal ay wadaagaan. Dhufsanayaasha ay wadaagaan 2 iyo 3 kan ugu yari waa 6, sidoo kale 4 iyo 6 dhufsanayaasha ay wadaagaan kan u yar waa 12.

Q e e x : Dhufsanayaasha ay wadaagaan labaama dhawr tiro kan u yar waxaa loo yaqaan dhufsane yaraha ay wadaagaan (Dh. Y. W.) tirooyinkaasu.

T u s a a l e 1

Raadi dhufsane yaraha ay wadaagaan 4 iyo 5.

F u r f u r i s :

Dhufsanayaasha 4 waa :

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

Dhufsanayaasha 5 waa :

$$\left\{ 5, 10, 15, 20, 25, \dots \right\}$$

Dhufsanayaasha ay wadaagaan 4 iyo 5 waa :

$$\left\{ 20, 40, 60, 80, \dots \right\}$$

Haddaba dhufsana yaraha ay wadaagaan 4 iyo 5 waa 20.

L a y l i :

Raadi Dh.Y.W. Labadii tiroba.

- 1) 5, 6, (2) 6, 9, (3) 7, 8, (4) 9, 15, (5) 12, 8,
- 6) 13, 39 (7) 12, 16.

Horey waxaynu u soo dhiganay sida loo soo saaro isirra da mutuxan ee tirooyinka taasoo inaga gargaaraysa dariiqda badanaaba la raaco marka loo soo saarayo Dh. Y.W.

Marka la raadinayo Dh. Y. W. Laba tiro waa in tallaabootin kan la raacaa.

- 1) Labada tiro mid kastaba gaar ahaan waa in loo doonaa isirradeeda mutuxan.

- 2) Isirrada isku midka ah ee labada tiroba soo gala waaxaad qaadanaysaa kuwa tarankoodu ugu badan yahay.
- 3) Isirrada mutuxan ee gaarka ah tira walbana waad qaadan.
- 4) Dabadeedna 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, isirk 2 mar qudha ayuu soo galay tirada 18, hase yeeshee saddex jeer ayuu soo galay tirada 24. Marka waxaa waajib ah in isirk 2, saddex jeer laga helo

Dh. Y. W. Sidaas oo kale isirk 3, laba jeer baa laga helayaa tirada 18, iyadoo mar qudha ah laga helayo tirada 24. Taas ayay waajib ku noqotay in laba jeer isirk 3 laga helo Dh.Y.W. Sidaa daraadeed Dh. Y. W. 18 iyo 24 waa :

$$(2 \times 2 \times 2 \times 3 \times 3) = 72.$$

Ogow qodobka saddexaad looma baahna sababtoo 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 $2 \times 3 \times 3 \times 5 = 90$

T u s a a l e 3

Soo saar Dh. Y. W. 72 iyo 90.

F u r f u r i s :

Hadda Dh. Y. W. 72 iyo 90 hab qaybeed aynu ku soo saarro.

Marka ugu horraysa waxaad baadi doonaysaa isir mutuxan oo 72 iyo 90 u wada qaybsama. Isirradu siday u kala yaryar yihiin baad u qa- adanaysaa adigoo ka bilaabaya 2.	2 72, 90
Inta ay jirto tiro labadeena tiroba u wada qayb- samaysa waad u wada qaybinaysaa.	2 36, 45
Markaad weydo tiro u wada qaybsanta isirka mutuxan ee u yar ayaad u qaybinaysaa kuu u qaybsamo. Waxaad ku xigsiinaysaa 3. Sidii si le'egna waad u wadaysaa. Marka xigtana waxaad ku dayeysaa 5, 7, 11, . . . ilaa aad hesho haraa ah 1,1. Markaasna ta- ranka isirrada mutuxan soo saar. Taranka isir- rada mutuxan ayaa ah dhufsane yaraha ay wa- daagaan labadaadii tiro.	2 18, 45
$2 \times 2 \times 2 \times 3 \times 3 \times 5 = 360$ $\therefore D.Y.W. 72 iyo 90 = 360$	3 9,45
	3 3,15
	5 1,5
	1, 1

L a y l i :

- 1) Tax isirrada mutuxan ee tirooyinka hoos ku yaal :
b) 6 t) 32 j) 625
x) 2401 kh) 16807
- 2) Jabjabyada qumman ee hoos ku yaal mid kasta u qor
sarreyyihiisa iyo hooseyyihiisa isirro mutuxan. Fudu-
deena adoo isku jirjaraya :

T u s a a l e :

$$\frac{15}{45} = \frac{3 \times 5}{3 \times 3 \times 5} = \frac{1}{3}$$

b) $\frac{24}{30}$ t) $\frac{22}{80}$ j) $\frac{16}{27}$

x) $\frac{48}{144}$

3) Buuxi meelaha bannaan ee hoos ku yaal :

- b) Dhusanayaasha 12 waa -----.
- t) Dhufsanayaasha 20 waa -----.
- j) Isirrada mutuxan ee 60 waa -----.
- x) Isirrada imutuxan ee 42 waa -----.
- kh) D.Y.W. 12 iyo 20 waa -----.
- d) D.Y.W. 42 iyo 60 waa -----.

4) Raadi D.Y.W. lammaanayaasha hoos ku yaal :

- b) (6,10) t) (9,15) j) (16,18)
- x) (36,60) kh) (54,64) d) (16,24)
- r) (18,42) s) (24,54) sh) (80,90)
- dh) (144,168).

5) Soo saar D.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)

1) DH E R E R

Hore waxaynu u soo baranay isugeynta iyo kalagoynta cabbirka dhererka. Hase yeeshe bal labadan tusaale ee naqtiiinka ah aan fiirino.

Xusuus : 1 mitir = 100 sentimitir.

$$1 \text{ m} = 100 \text{ sm.}$$

T u s a a l e 1

I s u g e e :

$$3\text{m. } 65\text{sm, iyo } 2\text{m. } 47\text{sm.}$$

S h a q o :

$$\begin{array}{r} \text{m} & \text{sm} \\ 3 & 65 \\ + 2 & \\ \hline \end{array}$$

$$\begin{array}{r} 5 & 112 = 100 + 12 \\ + 1 & \\ \hline 6 & 12 \text{ jawaab} \end{array}$$

T u s a a l e 2

$$2\text{m iyo } 19\text{sm ka goo } 1\text{m iyo } 46\text{sm}$$

S h a q o :

$$\begin{array}{r} \text{m} & \text{sm} & \text{m} & \text{sm} \\ 2 & 19 & = 1 & 100 + 19 \\ - 1 & 46 & - 1 & 46 \\ \hline \end{array}$$

$$\begin{array}{r} = \text{m} & \text{sm} \\ 1 & 119 \\ - 1 & 46 \\ \hline \end{array}$$

Hore waxaan u soo aragnay isugeynta sidasho leh iyo kalaqoynta amaaahasho leh. Labadan tusaale waxay ina tusaayaan sidoo kale.

Cabbirka dhererka mitir iyo sentimitir oo keliya laguna qiyaso. Haddaan fiirino kuwa kale oo wax lagu qiyaso mid ka mid ah waxaan qaadan karnaa kiilomitir.

$$1 \text{ kilomitir.} = 1000 \text{ mitir}$$

$$1 \text{ km} = 1000 \text{ m.}$$

T u s a a l e 1

I s u g e e :

1 km 30m 40sf, iyo 3km 160m 50st.

S h a q o :

km	m	st.
1	30	40
+ 3	160	50
-----	-----	-----
4	190	90 jawaab.
-----	-----	-----

T u s a a l e 2

I s u g e e :

40km 800m 60sm iyo 21km 400m 80sm

S h a q o :

km	m	st
40	800	60
+ 21	400	80
-----	-----	-----
61	1200	140
-----	-----	-----

140 sm. waa 1m iyo 40sm, 1200m waa 1km iyo 200m.
Sidaa awgeed jawaabtu waa :

62km 200m 40sm

Tusaale 3

Kala goo :

20km 635m 55sm iyo 9km 700m 65sm

Shaqo :

km	m	sm	km	m	sm
20	635	55	= 19	634	+ 1000 + 55 + 100
- 9	700	65	- 9	700	65

km	m	sm
19	1634	155
- 9	700	65
10	934	90

jawaab

Tusaale 4

Kala goo :

4km 700m 40sm iyo 3km 120m 60sm

Shaqo :

km	m	sm
4	700	40
- 3	120	60
1	579	80

jawaab

Layli :

I) Isugee :

- b) 3km 76m 35sm iyo 8km 100m 73sm
- t) 45km 578m 80sm iyo 38km 921m 88sm

- j) 116km 280m 17sm iyo 54km 309m 11sm
x) 319km 448m 57sm iyo 62km 189m 79sm.

II) K a l a g o o :

- b) 8km 36m 64sm iyo 6km 28m 32sm
t) 16km 823m 38sm iyo 9km 715m 69sm.
j) 49km 326m 75sm iyo 30km 389m 58sm.
x) 386km 231m 29sm iyo 139km 649m 86sm

Cabbirka dhererka oo tiro lagu dhufanayo

Iskudhufashada tirada hore ayaynu u soo baranay. Hadha waxaan doonaynaa inaan isku dhufano tiro iyo cabbir ka kooban kilomitir, mitir iyo sentimitir.

T u s a a l e :

km	m	sm
3	90	20
		$\times 3$
9	180	60

$$\text{Jawaab} = 9\text{km} \quad 180\text{m} \quad 60\text{sm.}$$

T u s a a l e 2

km	m	sm
2	100	20
		$\times 5$
10	500	100

Jawaabtu waa 10km 500m 100sm, hase yeesh ee
 $100\text{sm} = 1\text{m}$

\therefore Jawaabtu waa 10km 501m 0sm.

Tusaale 3

km	m	sm.
15	600	40
	X 6	
90	3600	240

Jawaabtu waa 90km 3600m 240sm, hase yeeshree

$$240\text{sm} = 2\text{m } 40\text{sm}, 3600\text{sm} = 3\text{km } 600\text{m}.$$

Jawaabtu waa 93km 602m 40sm

Tusaalahaa saddexaad haddii aad u fiirsato sida looga shaqeeyey wey dheer tahay. Waxaynu samaynay marka sentimitiryo mitir tirada ku dhufanay boqolkii sentimitir iyo kunkii mitir ayeynu ka dhignay hal kiiloomitir. Si taas ka gaaban fiirino.

km	m	sm
15	600	40
	X 6	
90	3600	240
+ 3	+ 2	
—	—	
1000	3602	

$$3 + 602$$

Tirada marka aynu sentimitir ku dhufano ayaynu dhiaynaa xiriiqda jawaabta hoosteeda. 100st ayeynu u qaybiisa sentimitirkha. Wuxuu inno soo hara waa sentimitir. Qaybtuna waa mitir, waxaynu u geynaa taranka tirada iyo mitirada. 100m ayeynu u qaybinnaa. Wuxuu inno soo hara waa mitir. Qaybtuna waa km, waxaynu u geynaa taranka tirada iyo kiiloomitirkha.

fusaale :

km	m	sin
2	300	50
		\times 5
11	502	50
10	1500	100 250
+ 1	+ 2	—
11	1000 <u>1502</u>	2 + 50
		1 + 502

Layli :

- 1) 5m 18sm \times 4
- 2) 5m 18sm \times 12
- 3) 2km 30m 35sm \times 5
- 4) 12km 405m 70sm \times 8
- 5) 21km 0m 65sm \times 9
- 6) 108km 572m 28sm \times 10
- 7) 115km 290m 30sm \times 25
- 8) 95km 108m 95sm \times 13

DHERER OO TIRO LOO QAYBINAYO

Waxa aad xasuusan tahay markii aan cabbir dherer kala goynaynay in aynu mararka qaarkood soo amaaahanay hal kii-loomitir oo ah kun mitir ama hal mitir oo ah boqol sentimitir. Taasi qaybinta wey soo geleysaa, hase yeesh ee halkii aynu kalaqoyn ta ka niri amaahasho qaybinta waxynu oranaynaa sariifaad.

T u s a a l e 1 5m 20sm ÷ 2

Sh a q o :

$$\begin{array}{r}
 \text{m} & \text{sm} \\
 2 & 60 \\
 \hline
 2 | 5 & 20 \\
 4 & 100 \\
 \hline
 1 \times 100 = 100 & 120 \\
 120 & \\
 \hline
 & 00
 \end{array}$$

Jawaab = 2m 60sm

T u s a a l e 2 1m 44sm ÷ 3

Sh a q o :

$$\begin{array}{r}
 0 & 48 \\
 3 | 1 & 44 \\
 0 & 100 \\
 \hline
 1 \times 100 = 100 & 144 \\
 144 & \\
 \hline
 & 000
 \end{array}$$

Jawaab = 0m 48sm.

T u s a a l e 3

3km 35m 60sm ÷ 2

Sh a q o :

km	m	sm
1	517	80
2 3	35	60
2	1000	100
—	—	—
1 × 1000	1035	160
	10	160
	—	—
	003	000
	002	—
	—	—
	015	—
	014	—
	—	—
	1 × 100	—

Jawaab = 1km 517m 80sm.

L a y l i :

- 1) 18m 24sm ÷ 3
- 2) 16m 04sm ÷ 4
- 3) 5m 40sm ÷ 9
- 4) 8km 160m 40sm ÷ 4
- 5) 7km 210m 32sm ÷ 6
- 6) 17km 148m 16sm ÷ 16
- 7) 105km 540m 120sm ÷ 18
- 8) 25km 100m 75sm ÷ 25

2) C U L A Y S K A

Aduunka intiisa badani waxay culayska ku cabbirtaan garaam iyo kiiloogaraam. Kuwaas waxa aad ku soo baratay

fasalka labaad, waxa kale oo aad soo qaadatay isugeyntooda.

Casharkan waxa aad ku baranaysaa culayska oo lagu dhufanayo loona qaybinayo tiro idil.

X u s u u s : 1000 garaam = 1 kiiloogaraam.

$$100 \text{ gm} = 1 \text{ kg.}$$

N a q t i i n :

- 1) Isu gee 25kg 450gm, 14kg 650gm.

Sh a q o :

kg	gm
25	450
+ 14	650
<hr/>	
39	1100 = 1000 + 100gm
1	= 1 kg + 100gm
<hr/>	
40 kg	100gm
<hr/>	
Jawaab = 40kg 100gm.	
<hr/>	

- 2) 15kg 260gm ka goo 9kg 750gm.

Sh a q o :

kg	gm	kg	gms
15	260	= 14	1000 + 260
- 9	750	= 9	750
<hr/>			
kg	gm		
14	1260		
- 9	750	<hr/>	
5	510	<hr/>	
Jawaab			

Digniin :

- 1) Marka aad isu geyso haddii garaamadu gaaraan 1000gm waxaad u rogaysaa 1kg.
- 2) Marka aad kala goyso haddii garaamada lagagoc yuu-hu ka yaraadaan kuwa lagooyaha, waxaad soo amahataa 1kg oo la mid ah 1000 garaan.

GULAYSKA OO LAGU DHUFANAYO LOONA QAYBINAYO TIRO IDIL :

Tusaale :

	kg	gm
	4	350
	×	5
Jawaab	21	750
	—	—
	20	1000 1750
	1	1kg + 750
	—	—
	21	—

	kg	gm
	4	350
	5 21	750
	20	1000
	—	—
	1 × 1000	1750
		15
		—
		25
		25
		—
		0000
		0000

Iawaab = 4kg 350gm.

Layli :

- | | | |
|----|----------|-----------|
| 1) | b) 3kg | 750gm × 2 |
| | t) 15kg | 120gm × 9 |
| | j) 9kg | 650gm × 6 |
| | x) 4kg | 150gm × 8 |
| | d) 21kg | 180gm × 7 |
| 2) | b) 15kg | 350gm ÷ 7 |
| | t) 2kg | 100gm ÷ 7 |
| | j) 3kg | 200gm ÷ 4 |
| | x) 1kg | 600gm ÷ 9 |
| | d) 321kg | 600gm ÷ 8 |

3) W A Q T I G A

Isugeynta iyo kalagoynta waqtiga :

Hadda ka hor waxaynu soo baranay isugeynta iyo kalagoynta waqtiga oo ku kooban saacad iyo miridho bal haddana aan u gudubno isugeynta iyo kalagoynta waqtiga oo seken la socota. Waxaynu xusuusan nahay in hal saac = 60 miridh 1 miridh = 60 seken

Tusaale 1

3 saacadood iyo 15 miridh u gee 4 saacadood iyo 35 miridh.

Shaqo :

Saacad	miridh
$\begin{array}{r} 3 \\ + 4 \\ \hline \end{array}$	$\begin{array}{r} 45 \\ 35 \\ \hline \end{array}$
$\begin{array}{r} 8 \\ - 8 \\ \hline \end{array}$	$\begin{array}{r} 20 \\ - 20 \\ \hline \end{array}$
	Jawaab
$\begin{array}{r} 1 \\ 7 \\ - 8 \\ \hline \end{array}$	$\begin{array}{r} 60 80 \\ - 60 \\ \hline 20 \end{array}$
	$1 + 20$

T u s a a l e 2

2 saacadood, 40 miridh iyo 20 seken u gee 5 saacadood,
30 miridh iyo 55 seken.

Sh a q o :

saac	miridh	seken
2	40	20
+ 5	30	5
8	11	15
7	70	60 75
1	1	1 + 15
—	60 71	
1 + 11		

T u s a a l e :

4 saacadood iyo 15 miridh ka goo 2 saacadood iyo 45
miridh.

Sh a q o :

saacad	miridh	saac.	mir.
4	15	3	60 + 15
— 2	45	= — 2	45
saac.	mir.		
3	75		
— 2	45		
1	30	Jawaab.	

T u s a a l e 4

Kala goo 3 saac. 30 mir. 20 sek. iyo 2 saac. 40 mir 35 sek

Sh a q o :

saac.	mir.	sek.	saac.	mir.	sek.
3	30	20	3	60 + 29	60 + 20
- 2	40	35	- 2	40	35

= saac. mir. sek.

3	89	80
- 2	40	35
1	49	45

I s u g e e :

- 1 2 saac. 10 mir. 20 sek. iyo 3 saac. 25 mir. 18 sek.
- 2 6 saac. 48 mir. 32 sek. iyo 7 saac. 10 mir. 23 sek.
- 3 9 saac. 22 mir. 45 sek. iyo 4 saac. 47 mir. 36 sek.
- 4 10 saac. 55 mir. 49 sek. iyo 11 saac. 33 mir. 24 sek.
- 5 20 saac. 14 mir. 50 sek. iyo 14 saac. 37 mir. 42 sek.

II) K a l a g o o :

- 1 3 saac. 40 mir. 50 sek. iyo 2 saac. 37 mir. 45 sek.
- 2 5 saac. 20 mir. 15 sek. iyo 4 saac. 30 mir. 12 sek.
- 3 2 saac. 35 mir. 22 sek. iyo 1 saac. 28 mir. 40 sek.
- 4 12 saac. 12 mir. 10 sek. iyo 8 saac. 26 mir. 19 sek.
- 5 25 saac. 44 mir. 50 sek. iyo 17 saac. 52 mir. 53 sek.

WAQTIGA OO LAGU DHUFANAYO TIRO IDIL

Waqtiga oo tiro idil lagu dhufanayo, waxba kama duwa-dhererka oo tiro idil lagu dhufanayo. Halkii aynu senti-titirka wixji boqolaal ah mitir u rogi jirray, mitirkana wixii

kumaad ah kiiloomitir ka dhigi jirray ayaynu wixii dhufsana yaasha 60 ah oo seken ah miridh ka dhigi miridhadana saa cado u rogi.

T u s a a l e 1

2 saacadood, 15 miridh iyo 10 sek. ku dhufo 3

Sh a q o :

saac.	miridh	seken	
2	15	10	
		\times	3
6	45	30	jawaab.

T u s a a l e 2 :

3 saacadood 25 miridh iyo 30 seken ku dhufo 4.

Sh a q o :

saac.	miridh	seken	
3	25	30	
		\times	4
13	42	0	jawaab.
12	100	60 120	
1	2	2 + 0	
13	60 102		
	1 + 42		

T u s a a l e 3 :

6 saacadood 45 miridh iyo 50 seken ku dhufo 12

Sh a q o :

$$\begin{array}{r} 6 & 45 & 50 \\ \times 12 \\ \hline 81 & 10 & 0 \end{array} \quad \text{jawaab.}$$

$$\begin{array}{r} 72 & 540 & 60 | 600 \\ 9 & 10 & 10 + 0 \\ \hline 81 & 60 | 550 \\ 9 + 10 & & \end{array}$$

L a y l i :

- 1) 3 saac. 20 mir. \times 2
- 2) 4 saac. 15 mir. \times 3
- 3) 1 saac. 50 mir. 45 sek. \times 2
- 4) 5 saac. 30 mir. 35 sek. \times 7
- 5) 12 saac. 20 mir. 15 sek. \times 8
- 6) 8 saac. 12 mir. 18 sek. \times 11
- 7) 10 saac. 28 mir. 44 sek. \times 15
- 8) 16 saac. 49 mir. 55 sek. \times 24

WAQTIGA OO LOO QAYBINAYO TIRO IDIL

T u s a a l e 1 :

3 saacadood 45 miridh iyo 30 seken u qaybi 3

Sh a q o :

$$\begin{array}{r} \text{saac.} & \text{mir.} & \text{seken} \\ \hline 1 & 15 & 10 \\ \hline 3 | 3 & 45 & 30 \\ 3 & 30 & 30 \\ \hline 0 & 15 & 00 \\ & 15 & \\ & \hline & 00 \end{array}$$

jawaabtu = 1 saac. 15 mir. 10 sek.

T u s a a l e 2 :

4 saacadood 37 miridh iyo 45 sek. u qaybi 3

Sh a q o :

saac	miridh	seken
1	32	35
3 4	37	45
3	60	60
—	—	—
1 × 60	97	105
	9	9
	—	—
	07	15
	6	15
	—	—
	1 × 60	00

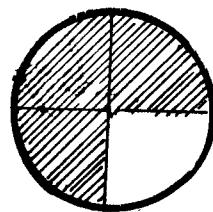
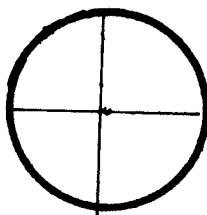
jawaabtu = 1 saac. 32 mir. 15 seken.

L a y l i :

- 1) 2 saac. 20 mir. ÷ 2
- 2) 3 saac. 30 mir. ÷ 3
- 3) 7 saac. 35 mir. 36 sek. ÷ 6
- 4) 13 saac. 42 mir. 27 sek. ÷ 9
- 5) 25 saac. 38 mir. 48 sek. ÷ 24
- 6) 14 saac. 58 mir. 31 sek. ÷ 13

N A Q T I I N

Markaynnu jabjabyada baranayno, waxaynnu barannaa qayb ka mid ah wax idil. Jabjab waxaa weeye walax loo googooyey (ama loo jebjebiyey ama loo qaybiyey) meelo isle'eg

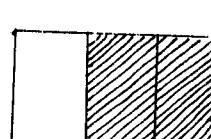
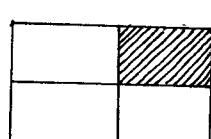
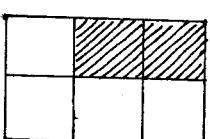
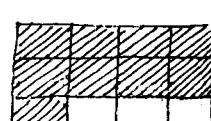
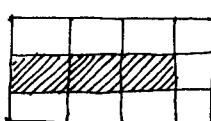
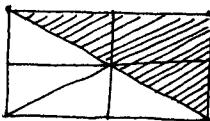


Immisa meelood oo isle'eg ayey goobo waliba u qaybsan tahay? Waa immisa jinka meel waliba? Bal aynnu qaadano saddex ka mid ah qaybahaa afarta ah. Qaypta haraysan waxaynnu niraahnaa waa saddex afreed; waxaana loo qoraa : 3

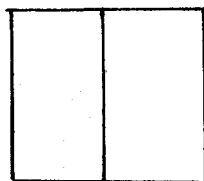
—. Waxaynnu niraahnaa saddexda sarreeye. Waxay 4 4

ino sheegaysaa inta meelood ee isle'eg ee walaxda loo qaybiyey. Wuxuu loo akhriyaa «afreed» mana aha afar. Waxaana la yiraahdaa hooseeye. Markaynnu jabjabyo qaadano, waxaynnu u fiirsanaa tirada meelaha iyo jinka meel walba.

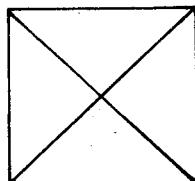
- 1) Shaxan walba meesha haraysanii waa immisaa? Xusuusnow, sarreeyahu wuxuu ina tusayaa tirada meelaha, hooseeyuhuna jinka meelaha.



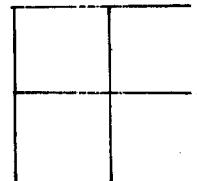
- 2) Shaxannadan oo kale ku sawir buugagga, dabadeed-na haree inta jajabka hoosteeda ku qorani tahay.



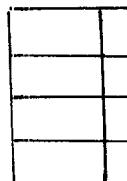
$$\frac{1}{2}$$



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

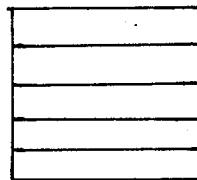
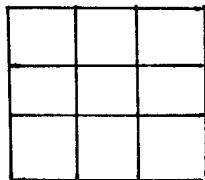


$$\frac{3}{4}$$

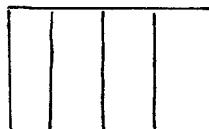


$$\frac{7}{8}$$

$$\frac{9}{9}$$



$$\frac{4}{5}$$



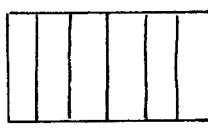
$$\frac{1}{4}$$



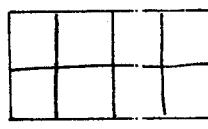
$$\frac{11}{12}$$



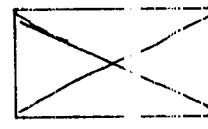
$$\frac{3}{8}$$



$$\frac{5}{6}$$



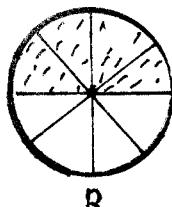
$$\frac{7}{8}$$



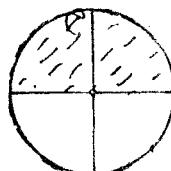
$$\frac{3}{4}$$

JAJABYADA OO LOO ROGAYO SANSAANKA UGU FUDUD

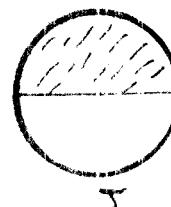
U fiirso saddexdan goobo ee isku jinka ah. Goobadee baa u qaybsan meelaha ugu yar yar ?
 Goobadee baa u qaybsan meelaha ugu badan ?
 Immisa ka haraysan goobada B ?
 Immisa ka haraysan goobada T ?
 Immisa ka haraysan goobada J ?



B



T



J

Goobadii walba sow badh ma haraysana ?

$$\text{Markaa } \frac{4}{8} = \frac{1}{2}, \quad \frac{2}{4} = \frac{1}{2}.$$

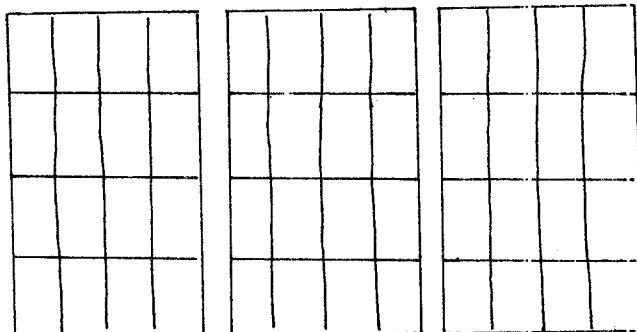
Markaynnu $\frac{4}{8}$ u beddelno $\frac{1}{2}$, Waxaa niraahin a wuu-
xuu u qoran yahay sansaanka ugu fudud.

Si sahlan oo jajabka $\frac{4}{8}$ loogu rogo sansaan fudud waxaa
 weeye inagoo sarreeyaha iyo h o o s e e y a h a jajabkaa u qay-
 bina tiro keliya, sida : $\frac{4}{8} = \frac{4 \div 4}{8 \div 4} = \frac{1}{2}$.

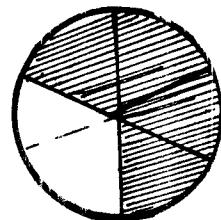
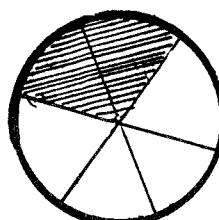
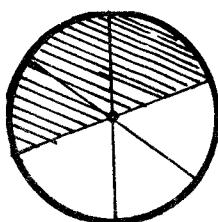
Layli :

1) Haree shaxan walba oo tus in

$$\frac{8}{16} = \frac{1}{2}, \quad \frac{4}{16} = \frac{1}{4}, \quad \frac{12}{16} = \frac{3}{4}$$



2) Meesha haraysan u qor sansaanka ugu fudud :



3) Jajab walba u qor sansaanka ugu fudud.

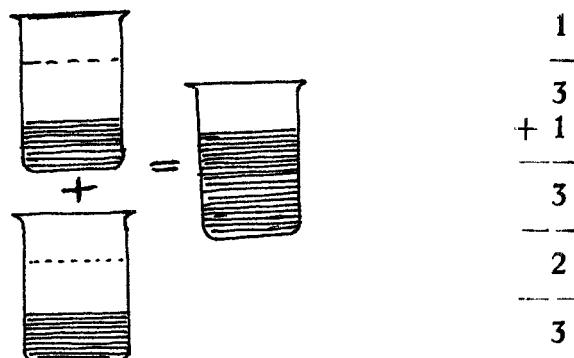
b) $\frac{5}{10}$ t) $\frac{3}{3}$ j) $\frac{6}{12}$ x) $\frac{2}{6}$ d) $\frac{6}{8}$ r) $\frac{4}{10}$ s) $\frac{4}{6}$

c) $\frac{8}{16}$ g) $\frac{2}{4}$ f) $\frac{2}{10}$ q) $\frac{4}{12}$ k) $\frac{4}{8}$ l) $\frac{6}{16}$ m) $\frac{10}{12}$

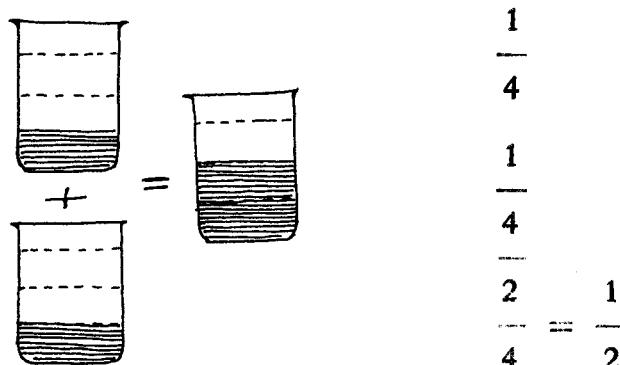
n) $\frac{12}{10}$ w) $\frac{8}{12}$ h) $\frac{2}{8}$.

ISUGEYNTA JAJABYADA ISU'EG :

- 1) Cali wuxuu $\frac{1}{3}$ koob oo biyo ah ku daray $\frac{1}{3}$ koob oo liin ah. Waa immisa (qiyaasta) sharaabka uu sameeyey ?



- 2) Caasha waxay $\frac{1}{4}$ koob oo liin ah ku dartay $\frac{1}{4}$ koob oo biyo ah. Waa immisa qiyaasta sharaabka ay sameeyey ?



Markaynnu laba jajab oo isu'eg isu geynayno, sarreeyeyaa sha baynnu isu geynaa, wadartoodana waxaynnu ku qornaa hooseeyaha guudkiisa. Dabadeed waxaynnu hubinaa inuu jajabku sansaanka ugu fudud u qoran yahay.

Sheeg sida looga shaqeeeyey layliyadan :

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

$$3) \frac{1}{6} + \frac{1}{6} = \frac{2}{6} = \frac{1}{3} \quad 4) \frac{1}{8} + \frac{3}{8} = \frac{4}{8} = ?$$

Layli :

Isu gee jajabyadan :

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

$$\frac{1}{4} \quad \frac{3}{7} \quad \frac{3}{5} \quad \frac{1}{4} \quad \frac{3}{8}$$

$$6) \frac{2}{10} \quad 7) \frac{1}{8} \quad 8) \frac{3}{12} \quad 9) \frac{1}{6} \quad 10) \frac{2}{6}$$

$$\frac{3}{10} \quad \frac{1}{8} \quad \frac{5}{12} \quad \frac{3}{6} \quad \frac{3}{6}$$

JAJAB MAQUMMANE IYO TIRO DHAFAN

Jajabka uu sareeyihiiisu ka yar yahay hooseeyihiiisa waa
 xaa la yiraahdaa jajab **qummane**, sida : $\frac{1}{2}, \frac{2}{3}, \frac{7}{8}, \frac{5}{6}$.

Jajabka uu sareeyihiiisu la mid yahay ama uu ka weyn yahay
 hooseeyaha waxa la yiraajajab **maqummane**. Waxaa ka

mid ah : $\frac{4}{4}, \frac{5}{3}, \frac{8}{6}, \frac{6}{4}$.

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

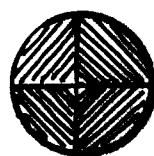
$$2\frac{1}{2}, \quad 6\frac{3}{4}, \quad 5\frac{4}{5}$$

Bal ayllu $\frac{11}{4}$ u rogno tiro dhafan. Jajabka $\frac{11}{4}$ micnihii-su waxa weeye 11 meelood oo jinkoodu yahay afreed.

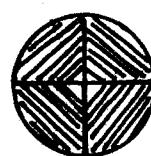
Afar afreed waa wax idil. Markaa 11 afreed waa 2 me-

eloqd oo idil iyo 3 meelood oo afreeddo ah : $\frac{11}{4} = 2\frac{3}{4}$.

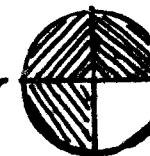
Ama hooseeyaha ayaynnu u qaybinnaa sarreeyaha.



+



+



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

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

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

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

$$\underline{- \qquad - \qquad -}$$

$$\underline{\qquad \qquad \qquad 3}$$

L a y l i :

U beddel jajab maqummanayaashan tirooyin idil ama tirooyin dhafan.

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

$$6) \frac{8}{4} \quad 7) \frac{11}{3} \quad 8) \frac{9}{6} \quad 9) \frac{15}{8} \quad 10) \frac{12}{3}$$

$$11) \frac{7}{7} \quad 12) \frac{7}{2} \quad 13) \frac{22}{7} \quad 14) \frac{21}{4} \quad 15) \frac{10}{2}$$

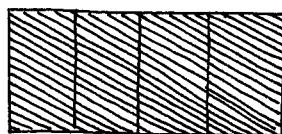
U beddel jajabyadan sansaanka ugu fudud.

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

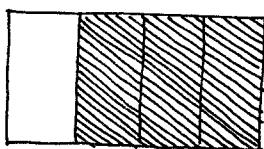
$$6) 3\frac{6}{4} \quad 7) 7\frac{8}{7} \quad 8) 5\frac{10}{4} \quad 9) 9\frac{9}{8} \quad 10) 2\frac{5}{4}$$

$$11) 8\frac{4}{8} \quad 12) 4\frac{5}{3} \quad 13) 6\frac{9}{5} \quad 14) 4\frac{6}{4} \quad 15) 10\frac{8}{3}$$

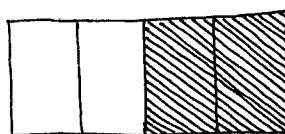
ISUGEYNTA JA JABYADA ISU'EG



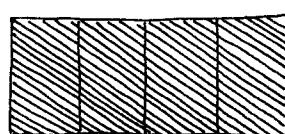
$$\frac{3}{4}$$



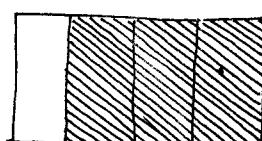
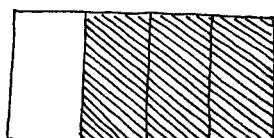
$$+ \frac{1}{4} \\ \hline \frac{4}{4} = 1$$



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



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



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

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

$$1) \quad \begin{array}{r} 2 \\ - \\ 3 \\ + 1 \\ \hline 3 \end{array}$$

$$\begin{array}{r} 3 \\ \hline 3 \\ - \\ 3 \\ \hline 3 \end{array}$$

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

$$2) \quad \begin{array}{r} 2 \\ - \\ 3 \\ + 2 \\ \hline 3 \end{array}$$

$$\begin{array}{r} 4 \\ \hline 3 \\ - \\ 3 \\ \hline 1 \end{array}$$

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

L a y l i :

Isu gee, jawaabtana u qor sansaanka ugu fudud.

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

$$\frac{1}{2} \quad \frac{3}{5} \quad \frac{7}{8} \quad \frac{7}{8} \quad \frac{8}{9}$$

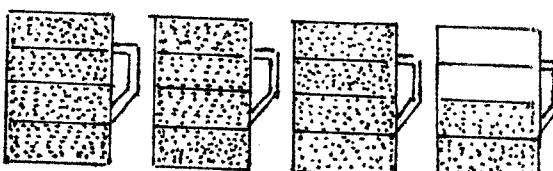
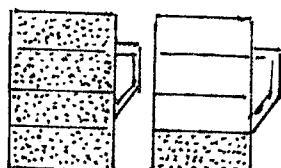
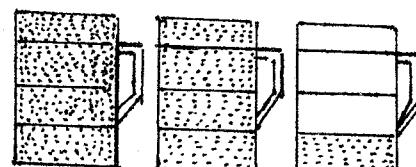
$$6) \quad \frac{4}{10} \quad 7) \quad \frac{3}{10} \quad 8) \quad \frac{7}{8} \quad 9) \quad \frac{7}{8} \quad 10) \quad \frac{7}{12}$$

$$\frac{9}{10} \quad \frac{4}{10} \quad \frac{5}{8} \quad \frac{1}{8} \quad \frac{7}{12}$$

$$11) \quad \frac{1}{3} \quad 12) \quad \frac{1}{5}$$

$$\frac{2}{3} \quad \frac{4}{5}$$

ISUGEYNTA TIROOYINKA DHAFAN

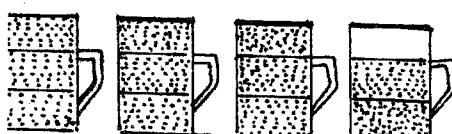


$$4 \frac{4}{4}$$

+

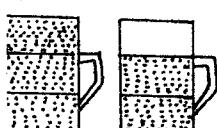
$$1 \frac{1}{4} - \frac{4}{4}$$

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

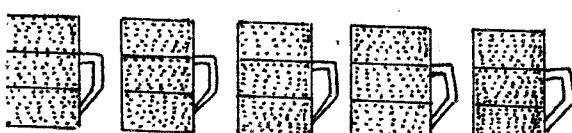


$$3 \frac{2}{3} - \frac{3}{3}$$

+



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



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

Marka hore isu gee jajabyada, marka xiga tirooyinkidil, dabadeedna u qor sansaanka ugu fudud.

Layli :

Isu gee tirooyinkan dhafan oo u qor sansaanka ugu fudud

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

$$5) \quad 5 \frac{1}{2} \qquad 6) \quad 3 \frac{3}{5} \qquad 7) \quad 2 \frac{7}{8} \qquad 8) \quad 1 \frac{7}{8}$$

$$9) \quad 5) \quad 4 \frac{1}{3} \qquad 6) \quad 3 \frac{5}{6} \qquad 7) \quad 6 \frac{7}{12} \qquad 8) \quad 7 \frac{2}{9}$$

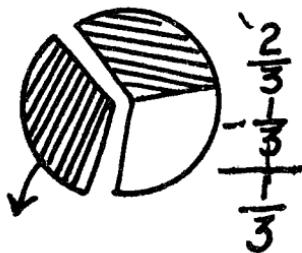
$$6) \quad 6 \frac{2}{3} \qquad 7) \quad 7 \frac{5}{6} \qquad 8) \quad 1 \frac{7}{12} \qquad 9) \quad 3 \frac{8}{9}$$

$$9) \quad 1 \frac{3}{10} \qquad 10) \quad 5 \frac{4}{5}$$

$$4) \quad 4 \frac{9}{10} \qquad 5) \quad 2 \frac{4}{5}$$

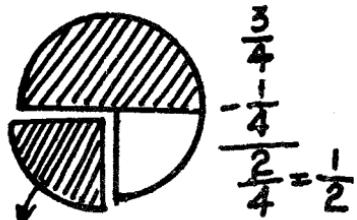
KALAGOYNTA JA JABYADA ISU'EG

$$\text{U fiirso sida } \frac{1}{3} \text{ looga jaro } \frac{2}{3}$$



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

$$\text{Baro sida } \frac{1}{4} \text{ looga jaro } \frac{3}{4}$$



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

Markaynnu kala goynaynno laba jajab oo isu eg, sarreeye-yaasha ayaynnu kala goynaa, faraqoodana waxaynnu guud dhignaa hooseeyaha, sansaanka ugu fudud baa dabadeed loo qoraa.

ayli :

Kala goo jajabyadan

$$1) \quad \begin{array}{r} 2 \\ - \\ 3 \end{array}$$

$$2) \quad \begin{array}{r} 4 \\ - \\ 5 \end{array}$$

$$3) \quad \begin{array}{r} 7 \\ - \\ 12 \end{array}$$

$$4) \quad \begin{array}{r} 3 \\ - \\ 4 \end{array}$$

$$\begin{array}{r} 1 \\ - \\ 3 \end{array}$$

$$\begin{array}{r} 2 \\ - \\ 5 \end{array}$$

$$\begin{array}{r} 5 \\ - \\ 12 \end{array}$$

$$\begin{array}{r} 1 \\ - \\ 4 \end{array}$$

$$5) \quad \begin{array}{r} 7 \\ - \\ 8 \end{array}$$

$$6) \quad \begin{array}{r} 7 \\ - \\ 12 \end{array}$$

$$7) \quad \begin{array}{r} 7 \\ - \\ 8 \end{array}$$

$$8) \quad \begin{array}{r} 5 \\ - \\ 6 \end{array}$$

$$\begin{array}{r} 3 \\ - \\ 8 \end{array}$$

$$\begin{array}{r} 1 \\ - \\ 12 \end{array}$$

$$\begin{array}{r} 1 \\ - \\ 8 \end{array}$$

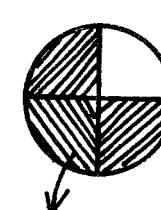
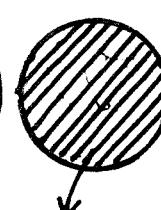
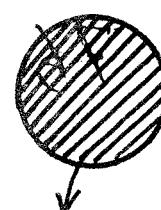
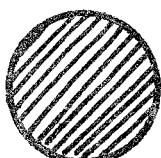
$$\begin{array}{r} 1 \\ - \\ 6 \end{array}$$

9) Caasha waxay haysataa $\frac{3}{4}$ dhalo oo caano ah, wa-

xay cabtay $\frac{1}{4}$, immisaa caaniihi u soo haray ?

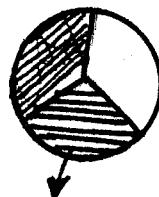
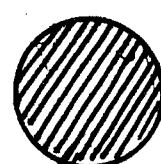
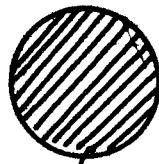
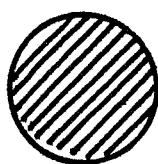
10) Guuleed wuxuu haystaa $\frac{3}{5}$ xabbad muus ah. Wu-

xuu cunay $\frac{2}{5}$. Immisaa u soo haray ?



$$\begin{array}{r}
 3 \\
 - \\
 4 \\
 = \\
 2 \\
 - \\
 4 \\
 = \\
 1 \\
 - \\
 4 \\
 = \\
 1 \\
 - \\
 2
 \end{array}$$

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



$$\begin{array}{r} 2 \\ 3 \\ - 2 \\ \hline 1 \end{array}$$

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

Layli :

Isu gee una qor sansaanka ugu fudud.

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

$4 \frac{1}{3}$ $2 \frac{1}{8}$ $7 \frac{3}{6}$ $5 \frac{5}{10}$

5) $2 \frac{11}{12}$ 6) $6 \frac{3}{4}$ 7) $8 \frac{3}{8}$ 8) $7 \frac{4}{9}$

$1 \frac{5}{12}$ $1 \frac{1}{4}$ $4 \frac{1}{8}$ $3 \frac{1}{9}$

$$9) \quad 17 \frac{4}{5} \quad 10) \quad 3 \frac{6}{7}$$

$$9 \frac{1}{5} \quad 1 \frac{3}{7}$$

Tirada maqan soo saar :

$$1) \quad \begin{array}{c} \text{B} \\ 2 = 1 \frac{?}{3} \end{array} \quad \begin{array}{c} \text{T} \\ 4 = 3 \frac{?}{5} \end{array} \quad \begin{array}{c} \text{J} \\ 3 = 2 \frac{?}{2} \end{array}$$

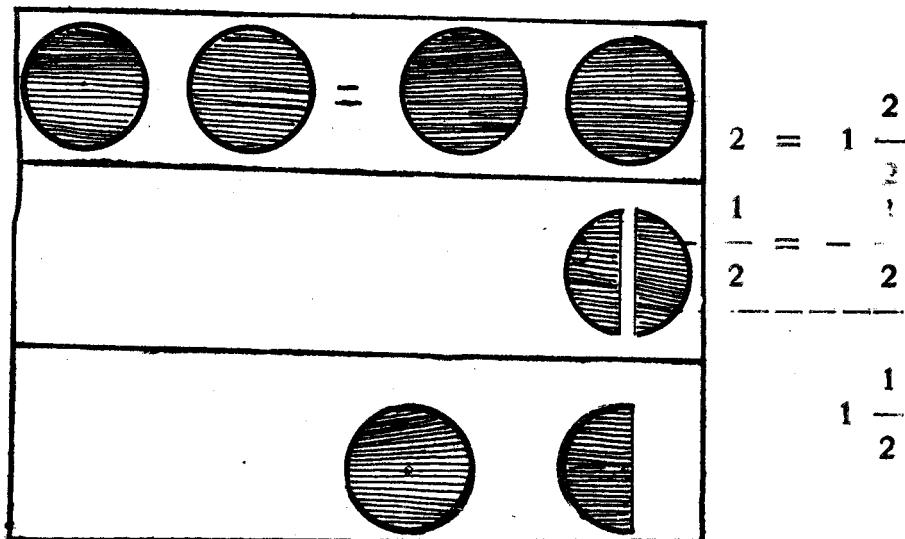
$$2) \quad \begin{array}{c} ? \\ 8 = 7 \frac{4}{?} \end{array} \quad \begin{array}{c} ? \\ 14 = 13 \frac{6}{?} \end{array} \quad \begin{array}{c} ? \\ 9 = 8 \frac{9}{?} \end{array}$$

$$3) \quad \begin{array}{c} ? \\ 5 = 4 \frac{12}{?} \end{array} \quad \begin{array}{c} ? \\ 20 = 19 \frac{7}{?} \end{array} \quad \begin{array}{c} ? \\ 5 = 4 \frac{10}{?} \end{array}$$

$$4) \quad \begin{array}{c} ? \\ 5 = 4 \frac{5}{?} \end{array} \quad \begin{array}{c} ? \\ 6 = 5 \frac{3}{?} \end{array} \quad \begin{array}{c} ? \\ 7 = 6 \frac{16}{?} \end{array}$$

$$5) \quad \begin{array}{c} ? \\ 2 = 1 \frac{15}{?} \end{array} \quad \begin{array}{c} ? \\ 10 = 9 \frac{11}{?} \end{array} \quad \begin{array}{c} ? \\ 13 = 12 \frac{6}{?} \end{array}$$

Geeddi wuxuu haystaa 2 xabbo oo muus ah; wuxuu Ca-
 1
 asha siiyay — muus ah. Imimisa muus ah baa u haray ?
 2



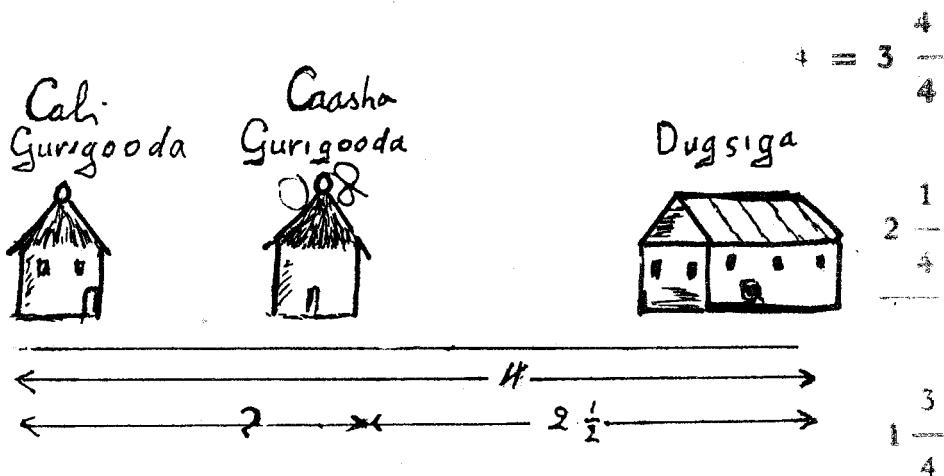
Kala goo, jawaabtana u qor sansaanka ugu fudud:

- | | | | | | | | |
|----|---|-----|---|-----|----|-----|----|
| 1) | 2 | 2) | 4 | 3) | 3 | 4) | 4 |
| | 1 | | 5 | | 2 | | 1 |
| | — | | — | | — | | — |
| | 4 | | 6 | | 3 | | 2 |
| 5) | 5 | 6) | 8 | 7) | 3 | 8) | 12 |
| | 1 | | 1 | | 1 | | 2 |
| | — | | — | | — | | — |
| | 5 | | 2 | | 3 | | 3 |
| 9) | 6 | 10) | 9 | 11) | 13 | 12) | 7 |
| | 3 | | 1 | | 2 | | 5 |
| | — | | — | | — | | — |
| | 6 | | 6 | | 3 | | 7 |

Cali gurigoodu wuxuu dugsiga u jiraa 4 km. Caashana

gurigoodu wuxuu u jiraa $2\frac{1}{4}$ km. Intee bay isu jiraan gu-

riga Cali iyo guriga Caasha? (Eeg shaxanka hoose)



Kala goo, jawaabtana u qor sansaanka ugu fudud.

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

$$6) \quad 8 \quad \quad 7) \quad 18 \quad \quad 8) \quad 4 \quad \quad 9) \quad 7 \\ \underline{-} \quad 2 \quad \quad \underline{-} \quad 13 \quad \quad \underline{-} \quad 2 \quad \quad \underline{-} \quad 4 \\ 4 \frac{9}{9} \quad \quad 7 \frac{7}{7} \quad \quad 6 \frac{6}{6} \quad \quad 4 \frac{4}{4}$$

$$10) \quad 12 \quad \quad 11) \quad 14 \\ \underline{-} \quad 1 \quad \quad \underline{-} \quad 2 \\ 6 \frac{3}{3} \quad \quad 10 \frac{5}{5}$$

Tirada maqan soo saar :

B

T

J

$$1) \quad 1 \frac{1}{3} = \frac{?}{3}$$

$$1 \frac{1}{5} = \frac{?}{5}$$

$$1 \frac{4}{7} = \frac{?}{7}$$

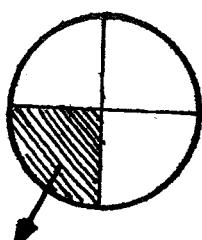
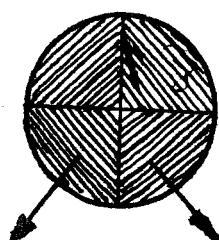
$$2) \quad 1 \frac{3}{4} = \frac{?}{4}$$

$$1 \frac{3}{8} = \frac{?}{8}$$

$$1 \frac{2}{6} = \frac{?}{6}$$

Caasha hooyadeed waxay haysay $1 \frac{1}{4}$ kiilo oo soor ah.

Waxay qadadii karisay $\frac{3}{4}$ kiilo. Immisaa u soo haray soortii ?



$$\begin{array}{r}
 1 \frac{1}{4} = \frac{5}{4} \\
 - \frac{3}{4} = \frac{3}{4} \\
 \hline
 \frac{2}{4} = \frac{1}{2}
 \end{array}$$

$$1) \quad 1 \frac{1}{5}$$

$$2) \quad 1 \frac{1}{6}$$

$$3) \quad 1 \frac{5}{9}$$

$$4) \quad 1 \frac{1}{3}$$

$$\frac{2}{5}$$

$$\frac{5}{6}$$

$$\frac{8}{9}$$

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

$$5) \quad 6 \frac{1}{8}$$

$$6) \quad 5$$

$$7) \quad 3$$

$$8) \quad 6 \frac{6}{5}$$

$$\frac{7}{8}$$

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

$$1 \frac{3}{8}$$

$$3 \frac{3}{5}$$

$$9) \quad 5 \frac{4}{9}$$

$$10) \quad 5 \frac{5}{12}$$

$$3 \frac{7}{9}$$

$$1 \frac{7}{12}$$

11) Cali wuxuu maalin socday $5 \frac{3}{10}$ km. Maalintii ku

xigtagyna wuxuu socday $3 \frac{9}{10}$ km. Immisa km

buu Cali socday labadaa maalmood ?

12) Hooyo waxay haysay 3 litir oo caano ah, waxay car-

ruurtii cabtay $2 \frac{3}{5}$ litir. Immisa caaniihii u soo ha-

ray hooyo ?

ISUGEYNTA JA JABYADA KALA DUWAN

$$\text{Diagram: Two circles. Left circle is divided into 2 equal parts, both shaded. Right circle is divided into 4 equal parts, 2 of which are shaded.}$$

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

$$\text{Diagram: Left circle is divided into 4 equal parts, 1 is shaded. Right circle is divided into 4 equal parts, 3 are shaded.}$$

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

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

$$\text{Diagram: Left circle is divided into 4 equal parts, 1 is shaded. Right circle is divided into 8 equal parts, 6 are shaded.}$$

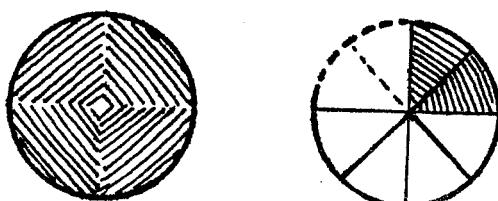
$$\frac{1}{2} = \frac{4}{8}$$

$$+ \frac{6}{8} = \frac{6}{8}$$

$$= \frac{10}{8}$$

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

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



Layli :

Isu gee una qor sansaanka ugu fudud.

$$\begin{array}{llllll}
 1) & \frac{1}{2} & 2) & \frac{1}{4} & 3) & \frac{1}{2} \\
 & \underline{2} & & \underline{4} & & \underline{2} \\
 \\
 6) & \frac{1}{2} & 7) & \frac{1}{10} & 8) & \frac{1}{3} \\
 & \underline{2} & & \underline{10} & & \underline{3} \\
 \\
 & \frac{5}{12} & & \frac{4}{5} & & \frac{2}{9} \\
 & \underline{12} & & \underline{5} & & \underline{9} \\
 & & & & & \frac{3}{4} \\
 & & & & & \underline{4} \\
 & & & & & \frac{1}{2} \\
 & & & & & \underline{2}
 \end{array}$$

Cali wuxuu dabay kalluun ah $2\frac{1}{2}$ kiilo. Jaamac wuxuu
 $\frac{3}{4}$ dabay kalluun ah $1\frac{3}{4}$ kiilo. Immisaa labada kalluun mii-
saankoodu yahay ?

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

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

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

Layli :

$$1) \quad \begin{array}{r} 5 \\ 3 - \\ 6 \\ + \\ 1 \\ \hline 3 - \\ 2 \end{array}$$

$$2) \quad \begin{array}{r} 3 \\ 3 - \\ 8 \\ + \\ 3 \\ \hline 6 - \\ 4 \end{array}$$

$$3) \quad \begin{array}{r} 1 \\ 7 - \\ 3 \\ + \\ 5 \\ \hline 3 - \\ 6 \end{array}$$

$$4) \quad \begin{array}{r} 7 \\ 2 - \\ 8 \\ + \\ 1 \\ \hline 1 - \\ 4 \end{array}$$

$$5) \quad \begin{array}{r} 3 \\ 3 - \\ 4 \\ + \\ 7 \\ \hline 7 - \\ 8 \end{array}$$

$$6) \quad \begin{array}{r} 5 \\ 1 - \\ 8 \\ + \\ 1 \\ \hline 4 - \\ 2 \end{array}$$

$$7) \quad \begin{array}{r} 7 \\ 3 - \\ 3 \\ + \\ 1 \\ \hline 6 - \\ 2 \end{array}$$

$$8) \quad \begin{array}{r} 1 \\ 5 - \\ 8 \\ + \\ 3 \\ \hline 1 - \\ 4 \end{array}$$

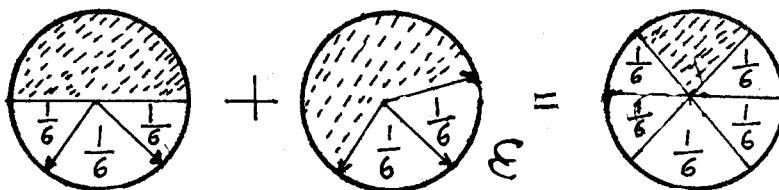
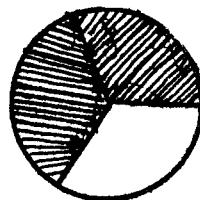
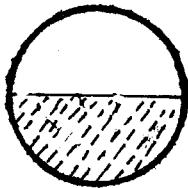
$$9) \quad \begin{array}{r} 5 \\ 4 - \\ 6 \\ + \\ 1 \\ \hline 2 - \\ 3 \end{array}$$

$$10) \quad \begin{array}{r} 2 \\ - \\ 3 \\ + \\ 5 \\ \hline 2 - \\ 9 \end{array}$$

Maxamed wuxuu haystaa $\frac{1}{2}$ goobo, Calina wuxuu hay-

staa $\frac{1}{3}$ goobo le'eg ta Maxamed. Labadii qaybood ee goo-

booyinka ayaa Cali isu geeyey. Immisa meelood oo goobada idil ayaa Cali sameeyey ?



$$\left(\frac{1}{2} \right) \frac{3}{6} + \frac{1}{3} \left(\frac{2}{6} \right) = \frac{5}{6}$$

Markaynnu isu geynayno $\frac{1}{2}$ iyo $\frac{1}{3}$, marka hore waa in

aynnu helnaa hooseeyaha ay wadaagaan. Waxaynnu u qaybin karnaa $\frac{1}{2}$ iyo $\frac{1}{3}$ lixeedo. Markaa 6 waa hooseeyaha ay wa-daagaan.

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

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

$$\frac{5}{6}$$

Layli :

Isu gee. Hubi jajab walba inuu yahay sansaanka ugu fudud.

B	T	J	X	KH	D	R
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$$1) \quad \begin{array}{r} 1 \\ \hline 2 \end{array} \quad \begin{array}{r} 1 \\ \hline 2 \end{array} \quad \begin{array}{r} 1 \\ \hline 5 \end{array} \quad \begin{array}{r} 1 \\ \hline 4 \end{array} \quad \begin{array}{r} 1 \\ \hline 6 \end{array} \quad \begin{array}{r} 1 \\ \hline 3 \end{array} \quad \begin{array}{r} 1 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 1 \\ \hline 5 \end{array} \quad \begin{array}{r} 2 \\ \hline 3 \end{array} \quad \begin{array}{r} 1 \\ \hline 4 \end{array} \quad \begin{array}{r} 2 \\ \hline 3 \end{array} \quad \begin{array}{r} 1 \\ \hline 4 \end{array} \quad \begin{array}{r} 5 \\ \hline 7 \end{array} \quad \begin{array}{r} 1 \\ \hline 5 \end{array}$$

$$2) \quad \begin{array}{r} 1 \\ \hline 8 \end{array} \quad \begin{array}{r} 2 \\ \hline 7 \end{array} \quad \begin{array}{r} 3 \\ \hline 6 \end{array} \quad \begin{array}{r} 4 \\ \hline 3 \end{array} \quad \begin{array}{r} 3 \\ \hline 5 \end{array} \quad \begin{array}{r} 1 \\ \hline 6 \end{array} \quad \begin{array}{r} 1 \\ \hline 2 \end{array}$$

$$\begin{array}{r} 1 \\ \hline 3 \end{array} \quad \begin{array}{r} 2 \\ \hline 3 \end{array} \quad \begin{array}{r} 5 \\ \hline 5 \end{array} \quad \begin{array}{r} 2 \\ \hline 2 \end{array} \quad \begin{array}{r} 2 \\ \hline 3 \end{array} \quad \begin{array}{r} 4 \\ \hline 5 \end{array}$$

$$3) \quad \begin{array}{r} 1 \\ 3 \\ \hline 3 \end{array} \quad \begin{array}{r} 1 \\ 4 \\ \hline 4 \end{array} \quad \begin{array}{r} 1 \\ 6 \\ \hline 6 \end{array} \quad \begin{array}{r} 3 \\ 8 \\ \hline 8 \end{array} \quad \begin{array}{r} 4 \\ 5 \\ \hline 5 \end{array}$$

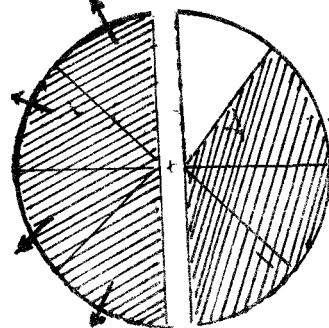
$$\begin{array}{r} 1 \\ 4 \\ \hline 2 \end{array} \quad \begin{array}{r} 2 \\ 3 \\ \hline 5 \end{array} \quad \begin{array}{r} 2 \\ 5 \\ \hline 5 \end{array} \quad \begin{array}{r} 1 \\ 6 \\ \hline 6 \end{array} \quad \begin{array}{r} 1 \\ 2 \\ \hline 2 \end{array}$$

$$4) \quad \begin{array}{r} 5 \\ 6 \\ \hline 6 \end{array} \quad \begin{array}{r} 1 \\ 2 \\ \hline 3 \end{array} \quad \begin{array}{r} 3 \\ 5 \\ \hline 5 \end{array} \quad \begin{array}{r} 1 \\ 2 \\ \hline 2 \end{array} \quad \begin{array}{r} 4 \\ 9 \\ \hline 9 \end{array}$$

$$\begin{array}{r} 1 \\ 10 \\ \hline 10 \end{array} \quad \begin{array}{r} 3 \\ 4 \\ \hline 4 \end{array} \quad \begin{array}{r} 1 \\ 5 \\ \hline 5 \end{array} \quad \begin{array}{r} 1 \\ 7 \\ \hline 7 \end{array} \quad \begin{array}{r} 5 \\ 6 \\ \hline 6 \end{array}$$

KALAGOYNTA JA JABYADA KALA DUWAN

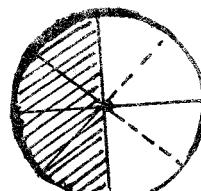
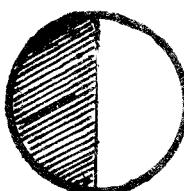
Markaynnu jajabyo kala duwan kala goynayno, waxaynu u beddelnaa jajabyo isu'eg ama jajabyo hooseeye wadaaga.



$$\begin{array}{r} 7 \\ \hline 8 \\ \hline \end{array} = \frac{7}{8}$$

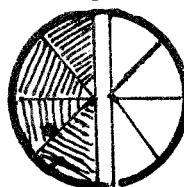
$$\begin{array}{r} 1 \\ \hline 2 \\ \hline \end{array} = \frac{1}{2}$$

$$\begin{array}{r} 3 \\ \hline 8 \\ \hline \end{array}$$

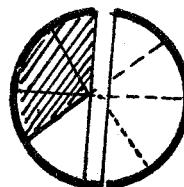


$$\begin{array}{r} 1 \\ \hline 2 \\ \hline \end{array} = \frac{1}{2}$$

$$\begin{array}{r} 1 \\ \hline 8 \\ \hline \end{array} = \frac{1}{8}$$



$$\begin{array}{r} 3 \\ \hline 8 \\ \hline \end{array}$$



K a l a g o o :

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

$$\begin{array}{r}
 6) \quad \frac{3}{4} \qquad 7) \quad \frac{5}{8} \qquad 8) \quad \frac{1}{5} \qquad 9) \quad \frac{3}{5} \qquad 10) \quad \frac{1}{2} \\
 \\
 \frac{5}{8} \qquad \frac{1}{2} \qquad \frac{1}{10} \qquad \frac{3}{10} \qquad \frac{1}{6}
 \end{array}$$

Cali dhererkiisu waa $73\frac{1}{2}$ sm, Caashana waa $60\frac{1}{4}$ sm.

Cali wuxuu yiri waxaan Caasha ka dheerahay $13\frac{1}{4}$ sm. Sidee
buu Cali u heley intuu ka dheer yahay Caasha ?

$$53\frac{1}{2} = 53\frac{2}{4}$$

$$- 50\frac{1}{4} = 50\frac{1}{4}$$

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

Kala goo :

$$\begin{array}{r}
 1) \quad 8\frac{5}{8} \qquad 2) \quad 12\frac{1}{2} \qquad 3) \qquad \qquad \qquad 4) \quad 7\frac{5}{12} \\
 \\
 3\frac{1}{2} \qquad 2\frac{1}{6} \qquad 4\frac{5}{8} \qquad 2\frac{1}{4}
 \end{array}$$

$$5) \quad 5 \frac{1}{2}$$

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

$$9) \quad 7 \frac{4}{5}$$

$$2 \frac{1}{10}$$

$$6) \quad 6 \frac{1}{4}$$

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

$$10) \quad 4 \frac{7}{8}$$

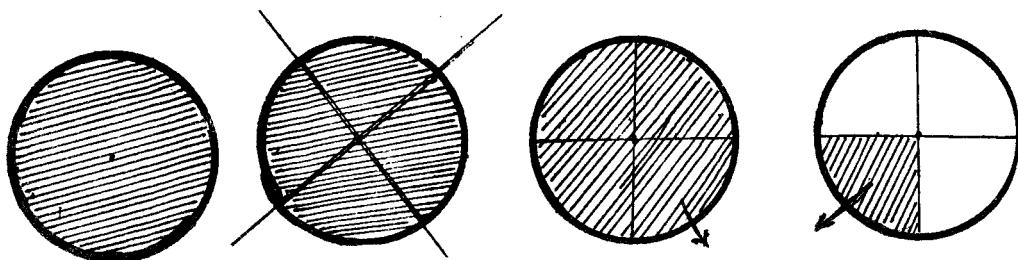
$$1 \frac{3}{4}$$

$$7) \quad 7 \frac{5}{9}$$

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

$$8) \quad 4 \frac{1}{2}$$

$$1 \frac{1}{3}$$



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

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

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

Caasha waxay u beertay dugsiga $5 \frac{2}{3}$ beerood, Calina

wuxuu u beeray dugsiga $2 \frac{5}{6}$. Immisaa beerood oo dheeraad ah ayay Caasho beertay ?

$$\begin{array}{rcl}
 5 \frac{2}{3} & = & 5 \frac{4}{6} = 4 \frac{10}{6} \\
 - 2 \frac{5}{6} & = & - 2 \frac{5}{6} = - 2 \frac{5}{6} \\
 \hline
 & & 2 \frac{5}{6}
 \end{array}$$

Layli :

Kalagoo :

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

$$9) \quad 4 \frac{1}{2} \quad 10) \quad 8 \frac{4}{12}$$

$$2 \frac{7}{8} \quad 5 \frac{5}{6}$$

Caasha hooyadeed waxay haysay $\frac{2}{3}$ mitir oo dhar ah.

Waxay Caasha uga samaysay kurdad $\frac{2}{4}$ mitir ah. Immisaa u soo haray Caasha hooyadeed ?

$$6 \frac{2}{3} = 6 \frac{8}{12}$$

$$- 2 \frac{1}{4} = - 2 \frac{3}{12}$$

$$4 \frac{5}{12}$$

Markaynnu $\frac{1}{4}$ ka goynayno $\frac{2}{3}$, marka hore waa in aynnu

helnaa hooseeye ay wadaag?

T u s a a l e :

$$\frac{2}{3} - \frac{1}{4} = \frac{2 \times 4}{3 \times 4} - \frac{1 \times 3}{4 \times 3} = \frac{8}{12} - \frac{3}{12} = \frac{5}{12}$$

Layli :

Kalagoo :

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

$$\frac{1}{5} \quad \frac{1}{4} \quad \frac{1}{5} \quad \frac{1}{3} \quad \frac{1}{8}$$

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

$$2 \frac{1}{6} \quad 4 \frac{1}{7} \quad 2 \frac{1}{4} \quad 1 \frac{1}{8}$$

Tusaale :

$$5 \frac{1}{4} = 5 \frac{3}{12} = 4 \frac{15}{12}$$

$$- 3 \frac{2}{3} = - 3 \frac{8}{12} = - 3 \frac{8}{12}$$

$$\begin{array}{r} \\ \\ \hline 1 \frac{7}{12} \end{array}$$

Marka hore waa inaynnu heincaa hooseeyaha ay wadaagaan.

Mar haddii aan $\frac{8}{12}$ laga jari karayn $\frac{3}{12}$, waa inaynnu $5 \frac{15}{12}$ u

beddelnaa $4 \frac{15}{12}$.

Layli :

Kala goo :

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

Waxaynnu soo aragnay tab la isugu geeyo ama loo kala gooyo jajabyada. Imminkana aan baranno tabtan kale iyadoo la isticmaalayo dhuusane yaraha ay hooseeyahaasu wadaagaan.

Tusaale :

- $$1) \text{isu gee : } \frac{1}{4} \text{ iyo } \frac{2}{3}.$$
- Dh. Y.W. $\frac{1}{4} \text{ iyo } \frac{2}{3} = 12$

$$\frac{1}{4} + \frac{2}{3} = \frac{3+8}{12} = \frac{11}{12}.$$

-2) isu gee : $2\frac{1}{2}$ iyo $3\frac{1}{3}$.

Dh. Y.W. $2\frac{1}{2}$ iyo $3\frac{1}{3} = 6$.

$$2\frac{1}{2} + 3\frac{1}{3} = (2+3)\frac{3+2}{6} = 5\frac{5}{6}.$$

Layli :

Isu geee :

1)	$\frac{1}{2}$	2)	$\frac{4}{5}$	3)	$\frac{1}{3}$
	$\frac{1}{6}$		$\frac{1}{2}$		$\frac{1}{6}$
4)	$\frac{3}{4}$	5)	$\frac{1}{5}$	6)	$\frac{3}{6}$
	$\frac{2}{3}$		$\frac{1}{10}$		$\frac{2}{7}$

Waxaynnu soo aragnay tab la isugu geeyo jajabyada iyada oo la adeegsanaayo dhufsane yaraha ay hooseeyaashu wadaagaan. Imminkana aan baranno kalagoynta jajabyada iyada oo aynnu adeegsanayno dhufsane yaraha ay hooseeyaa-shu wadaagaan.

T u s a a l e :

$$1) \quad \frac{3}{4} \text{ ka goo } \frac{1}{2}$$

Dh. Y.W. 4 iyo 2 = 4

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

$$2) \quad 2 \frac{1}{2} \text{ ka goo } 1 \frac{1}{3}$$

Dh. Y.W. 2 iyo 3 = 6.

$$2 \frac{1}{2} - 1 \frac{1}{3} = (2-1) \frac{3-2}{6} = 1 \frac{1}{6}.$$

L a y l i :

K a l a g o o :

1) $\frac{2}{9}$	2) $\frac{3}{4}$	3) $\frac{5}{8}$	4) $\frac{7}{10}$	5) $\frac{1}{2}$
1	2	1	1	$\frac{1}{5}$
$\frac{1}{9}$	$\frac{2}{3}$	$\frac{1}{2}$	$\frac{1}{10}$	

I s u g e e :

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

$$6) \frac{5}{6} \quad 7) 2 \frac{4}{5} \quad 8) 7 \frac{3}{5} \quad 9) 30 \frac{1}{2}$$

$$\frac{2}{3} \quad 1 \frac{3}{4} \quad 3 \frac{1}{2} \quad 15 \frac{1}{3}$$

Kala goo :

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

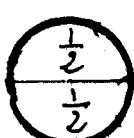
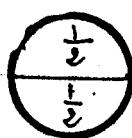
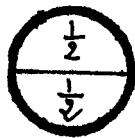
$$\frac{2}{3} \quad \frac{1}{3} \quad \frac{1}{4} \quad \frac{1}{2} \quad \frac{1}{5}$$

$$6) \frac{5}{6} \quad 7) 3 \frac{7}{10} \quad 8) 9 \frac{1}{3} \quad 9) 4 \frac{1}{4}$$

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

ISKUDHUFASHADA TIRO IDIL IYO JAJAB

Maxamed wuxuu cunaa $\frac{1}{2}$ mafafay ah maalin walba,
 Immisa xabbo oo mafafay ah ayuu cunaa toddobadii casho ?



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

Su'aashu waxa weeye toddoba badh waa immisa ?

$$7 \times \frac{1}{2} = \frac{7 \times 1}{2} = \frac{7}{2} = 3 \frac{1}{2}$$

Sheeg sida looga shaqeeeyey layliyada B iyo T. Dhammee shaqada J iyo X.

$$\text{b)} \quad 3 \times \frac{3}{4} = \frac{3 \times 3}{4} = \frac{9}{4} = 2 \frac{1}{4},$$

$$\text{t)} \quad 6 \times \frac{5}{8} = \frac{6 \times 5}{8} = \frac{30}{8} = 3 \frac{3}{4}$$

$$\text{j)} \quad 4 \times \frac{2}{9} = \frac{4 \times ?}{9} = ?$$

$$\text{x)} \quad 8 \times \frac{5}{6} = \frac{8 \times 5}{6} = \frac{40}{6} = 6 \frac{?}{6} = 6 \frac{?}{6}$$

Layli :

Isku dhufo :

$$\text{1)} \quad 6 \times \frac{1}{3} \quad \text{2)} \quad 5 \times \frac{3}{4} \quad \text{3)} \quad 10 \times \frac{3}{8}$$

$$\text{4)} \quad 8 \times \frac{1}{6} \quad \text{5)} \quad 4 \times \frac{1}{4} \quad \text{6)} \quad 13 \times \frac{1}{7}$$

$$\text{7)} \quad 10 \times \frac{5}{6} \quad \text{8)} \quad 8 \times \frac{2}{5} \quad \text{9)} \quad 6 \times \frac{2}{7}$$

$$10) \quad 4 \times \frac{4}{7}$$

$$11) \quad 8 \times \frac{3}{10}$$

$$12) \quad 9 \times \frac{3}{7}$$

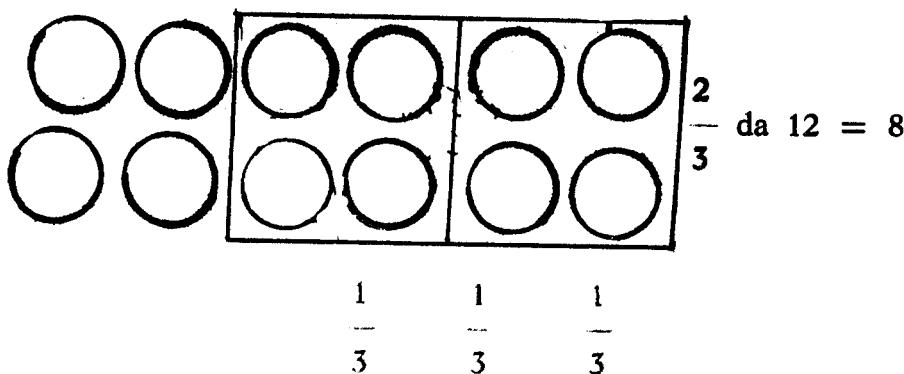
$$13) \quad 4 \times \frac{7}{9}$$

$$14) \quad 6 \times \frac{7}{12}$$

$$15) \quad 9 \times \frac{1}{5}$$

TIRO IDIL OO JAJAB LAGU DHUFANAAYO

Cali wuxuu haystaa 12 xabbo oo muus ah. Wuxuu Caa-sha siiyey $\frac{2}{3}$ oo ka mid ah muuska. Immisa muus ah ayuu sii-yey Caasha ?



Tiro idil oo lagu dhufstay jajab waxay la mid tahay tira-da idil oo qaybaheeda la soo saaro. Marka qaybo la doonayo waa in la qaybiyaa tirooyinka.

$$1) \quad \frac{1}{3} \text{ da } 15 = 5$$

$$2) \quad \frac{4}{5} \text{ da } 45 = 36$$

$$\begin{array}{r} 5 \\ 3 | 15 \\ 15 \\ \hline 00 \end{array}$$

$$\begin{array}{r} 9 \\ 5 | 45 \\ 45 \\ \hline 00 \\ \times 4 \\ \hline 36 \end{array}$$

$$3) \quad \begin{array}{r} 2 \\ - \\ 3 \\ \hline 8 \\ 3 | 24 \\ 24 \\ 00 \\ \hline \end{array} \quad \begin{array}{r} 8 \\ \times 3 \\ \hline 24 \\ \hline \end{array}$$

Markaynnu tiro idil iyo jajab isku dhufanaynno, waxaynu heli sansaan fudud, haddii aynnu u qaybinno sarreeyaha iyo hooseeyaha tiro keliya. Isku qaybintan oo kale waxaa la yiraa isujarjariid.

BARO TUSAALOOYINKAN :

$$1) \quad \frac{2}{5} \text{ da } 10 = \frac{2 \times 10}{5} = 4$$

$$2) \quad \frac{3}{8} \text{ da } 12 = \frac{3 \times 12}{8} = \frac{9}{2} = 4 \frac{1}{2}$$

$$3) \quad \frac{3}{4} \text{ da } 9 = \frac{3 \times 9}{4} = \frac{27}{4} = 6 \frac{3}{4}$$

$$4) \quad \frac{2}{3} \text{ da } 8 = \frac{2 \times 8}{3} = \frac{16}{3} = 5 \frac{1}{3}$$

Layli :

Isku dhufo. Marka hore eeg inaad isu jarjari kartid :

- 1) $\frac{2}{3} \text{ da } 6$
- 2) $\frac{3}{4} \text{ da } 10$
- 3) $\frac{1}{3} \text{ da } 21$
- 4) $\frac{1}{4} \text{ da } 8 \text{ ama } \frac{1}{4} \times 8$
- 5) $\frac{4}{5} \text{ da } 20$
- 6) $\frac{1}{3} \times 36$
- 7) $\frac{7}{12} \times 8$
- 8) $\frac{3}{7} \times 49$
- 9) $\frac{3}{10} \times 12$
- 10) $\frac{2}{9} \times 36$
- 11) $\frac{1}{6} \times 8$
- 12) $\frac{3}{8} \times 64$
- 13) $\frac{2}{5} \times 25$
- 14) $\frac{3}{5} \times 50$

Tiro dhafan oo loo geddiyayo jajab maqummane

Marka tiro dhafan loo rogayo jabjab maqummane waxaa la sameeyaa :

- 1) Tirada idil ku dhufo hooseeyaha jajabka;
- 2) Isu gee tarankaa iyo sarreeyaha jajabka;
- 3) Wadarta hoosteeda ku qor hooseeyaha.

Tusaale :

$$1) 3 \frac{2}{3} = \frac{(3 \times 3) + 2}{3} = \frac{9 + 2}{3} = \frac{11}{3}$$

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

$$3) \quad 4 \frac{1}{2} = \frac{(4 \times 2) + 1}{2} = \frac{8 + 1}{2} = \frac{9}{2}$$

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

Layli :

Tiradii walba ee dhafan u geddi jajab maqummane :

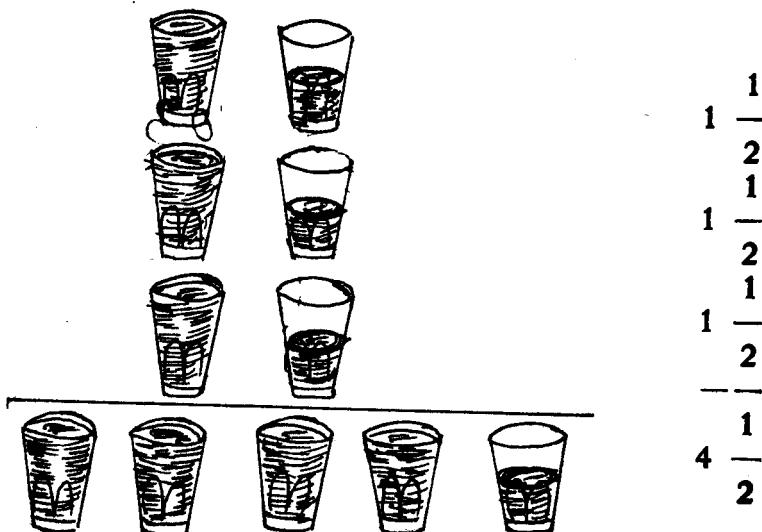
$$1) \quad 4 \frac{2}{3} \quad 2) \quad 5 \frac{2}{5} \quad 3) \quad 3 \frac{2}{3} \quad 4) \quad 6 \frac{5}{7}$$

$$5) \quad 3 \frac{7}{12} \quad 6) \quad 2 \frac{3}{4} \quad 7) \quad 3 \frac{2}{9} \quad 8) \quad 7 \frac{1}{8}$$

$$9) \quad 9 \frac{3}{10} \quad 10) \quad 1 \frac{3}{5}$$

TIRO IDIL OO LAGU DHUFANAYO TIRO DHAFAN

- 1) Faay waxay cabtaa $1 \frac{1}{2}$ koobo oo caano ah maalin walba. Immisaa koob oo caano ah ayay cabtay **3** maalmood ?



Tirada dhafan waxaynu u rogaynaa jajab maqummane da-badeedna waxaynu iskū dhufanaynaa jajab maqummanaha iyo tirada idil.

$$\text{Qor, } 3 \times 1 \frac{1}{2} = 3 \times \frac{3}{2} = \frac{3 \times 3}{2} = \frac{9}{2} = 4 \frac{1}{2}$$

- 2) Haddii weel qaado 2 litir, immisa ayuu qaadaya? weelka iyo badhkii.

$$1 \frac{1}{2} \times 2 = \frac{3}{2} \times 2 = \frac{3 \times 2}{2} = \frac{6}{2} = 3 \text{ litir}$$

Isku dhufo, isu jarjar markay suuroobayso :

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

$$2) \quad 9 \times 7 \frac{2}{5}$$

$$3) \quad 8 \times 7 \frac{3}{7}$$

$$4) \quad 6 \times 4 \frac{5}{6}$$

$$5) \quad 4 \times 3 \frac{1}{8}$$

$$6) \quad 16 \times 5 \frac{5}{9}$$

$$7) \quad 3 \frac{1}{2} \times 7$$

$$8) \quad 4 \frac{2}{3} \times 9$$

$$9) \quad 7 \frac{3}{4} \times 5$$

$$10) \quad 5 \frac{5}{8} \times 8$$

$$11) \quad 2 \frac{2}{3} \times 6$$

$$12) \quad 8 \frac{1}{4} \times 7$$

$$13) \quad 10 \times 3 \frac{2}{3}$$

$$14) \quad 9 \frac{1}{6} \times 6$$

$$15) \quad 12 \times 5 \frac{5}{7}$$

JAJAB LAGU DHUFANAAYO JAJAB KALE

3

Sahra waxay haysay — doolsho. Cartuuitedii waxay
 4

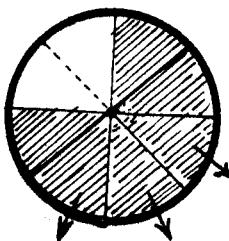
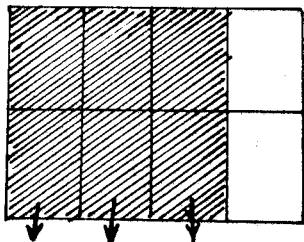
1

2

casha u cuneen — ka mid ah. Immisa ka mid ah doolshihii

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

ayay carruurtu cuntay ? Waa immisa — ka — ?



Waxay cuneen $\frac{3}{8}$

Waxay cuneen $\frac{3}{8}$

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

Marka la doonaayo — ka — intay tahay, sarreeyayaasha

waa la isku dhushtaa, booseeyayaashana waa la isku dhushtaa.

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

1) $\frac{1}{2} \times \frac{2}{5} = \frac{1 \times 2}{2 \times 5} = \frac{1}{5}$

$$2) \quad \frac{1}{3} \times \frac{6}{7} = \frac{1 \times 6}{3 \times 7} = \frac{2}{7}$$

Layli :

Isku dhufo; isu jarjar markay suurowdo :

$$1) \quad \frac{2}{3} \times \frac{1}{4} \quad 2) \quad \frac{1}{8} \times \frac{2}{3} \quad 3) \quad \frac{1}{3} \times \frac{3}{4}$$

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

~~$\frac{1}{2}$~~

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

$$10) \quad \frac{1}{6} \times \frac{9}{10} \quad 11) \quad \frac{3}{4} \times \frac{1}{3} \quad 12) \quad \frac{7}{8} \times \frac{2}{3}$$

$$13) \quad \frac{3}{4} \times \frac{1}{6} \quad 14) \quad \frac{2}{3} \times \frac{4}{5} \quad 15) \quad \frac{5}{6} \times \frac{3}{8}$$

Guriga Cali iyo dugsigu waxay isu jiraan $6\frac{1}{2}$ km. Ja-

mac gurigooda iyo dugsiguna waxay isu jiraan inta guriga Cali u jito dugsiga badhkeed. Intee bay isu jiraan guriga Cali iyo guriga Jaamac? (Eeg jaantuska hoose).



$$\frac{1}{2} \times 6 \frac{1}{2} = \frac{1}{2} \times \frac{13}{2} = \frac{1 \times 13}{2 \times 2} = \frac{13}{4} = 3 \frac{1}{4}$$

Markaynnu isku dhufanaynno tiro dhafan iyo jajab, ti-
rada dhafan waxaynnu marka hore u geddinaa jajab maqum-
mane dabadeedna waynnu isku dhufanaa.

L a y l i :

Isku dhufo, isu jarjar markay suuroobayso :

$$1) \quad \frac{2}{3} \times 4 \frac{1}{2} \quad 2) \quad \frac{1}{2} \times 3 \frac{1}{3} \quad 3) \quad \frac{4}{5} \times 6 \frac{1}{4}$$

$$4) \quad 8 \frac{1}{3} \times \frac{2}{5} \quad 5) \quad 3 \frac{1}{2} \times \frac{4}{5} \quad 6) \quad 4 \frac{3}{4} \times \frac{5}{8}$$

$$7) \quad 9 \frac{3}{8} \times \frac{3}{4} \quad 8) \quad 7 \frac{4}{5} \times \frac{5}{6} \quad 9) \quad 12 \frac{1}{6} \times \frac{7}{8}$$

$$10) \quad \frac{4}{5} \times 7 \frac{3}{8} \quad 11) \quad \frac{7}{10} \times 6 \frac{3}{5} \quad 12) \quad \frac{3}{4} \times 5 \frac{2}{3}$$

$$13) \quad \frac{3}{4} \times 2\frac{1}{3}$$

$$14) \quad \frac{5}{6} \times 4\frac{1}{2}$$

$$15) \quad \frac{1}{7} \times 3\frac{1}{3}$$

Dhererka beer baa wuxuu yahay $8\frac{1}{2}$ mitir, ballaceeduna
 waa $6\frac{2}{3}$ mitir. Waa immisa bedka beertu ?

Marka laba tiro oo dhafan la isku dhufanayo, waxaa mar-ka hore loo beddelaya jabjab maqummanayaal, dabadeedna waa la isku dhufanayaa iyadoo la isu jarjarayo.

Bilmetel :

$$8\frac{1}{2} \times 6\frac{2}{3} = \frac{17}{2} \times \frac{20}{3} = \frac{170}{6} = 56\frac{2}{3}$$

Layli :

Isku dhufo, isku jarjar markay suuroobayso.

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

$$2) \quad 6\frac{2}{3} \times 4\frac{1}{4}$$

$$3) \quad 3\frac{1}{5} \times 4\frac{3}{4}$$

$$4) \quad 7\frac{5}{6} \times 3\frac{2}{3}$$

$$5) \quad 3\frac{1}{8} \times 4\frac{3}{7}$$

$$6) \quad 8\frac{2}{3} \times 6\frac{5}{6}$$

$$7) \quad 8\frac{2}{5} \times 3\frac{7}{8}$$

$$8) \quad 6\frac{3}{4} \times 5\frac{2}{9}$$

$$9) \quad 3\frac{4}{5} \times 1\frac{2}{5}$$

$$\begin{array}{r}
 10) \quad 1\frac{5}{12} \times 3\frac{4}{5} \quad 11) \quad 2\frac{2}{5} \times 6\frac{5}{8} \quad 12) \quad 10\frac{3}{8} \times 4\frac{1}{2} \\
 13) \quad 3\frac{4}{7} \times 2\frac{1}{5} \quad 14) \quad 4\frac{1}{2} \times 2\frac{1}{3} \quad 15) \quad 10\frac{3}{4} \times 1\frac{1}{11}
 \end{array}$$

N A Q T I I N

I s u g e e :

$$\begin{array}{cccc}
 1) \quad \frac{1}{2} & 2) \quad \frac{5}{8} & 3) \quad \frac{1}{5} & 4) \quad \frac{5}{6} \\
 \frac{1}{6} & \frac{3}{4} & \frac{7}{10} & \frac{2}{3} \\
 5) \quad \frac{1}{3} & 6) \quad 7\frac{1}{4} & 7) \quad 1\frac{1}{3} & 8) \quad 1\frac{5}{8} \\
 \frac{2}{9} & \frac{2}{3} & \frac{5}{6} & \frac{1}{2} \\
 9) \quad 3\frac{1}{3} & 10) \quad \frac{3}{4} & 11) \quad 8\frac{1}{8} & 12) \quad 2\frac{1}{2} \\
 2\frac{2}{7} & \frac{5}{6} & 2\frac{2}{3} & 4\frac{1}{7}
 \end{array}$$

Kala goo :

- 1) $\frac{7}{10}$
- 2) $\frac{6}{7}$
- 3) $6 \frac{7}{8}$
- 4) 3

- 5) $\frac{1}{10}$
- 6) $\frac{2}{7}$
- 7) $3 \frac{5}{8}$
- 8) $1 \frac{1}{5}$

- 9) $7 \frac{2}{5}$
- 10) $\frac{7}{8}$
- 11) $\frac{1}{5}$
- 12) $\frac{3}{8}$

- 13) $3 \frac{4}{5}$
- 14) $\frac{1}{4}$
- 15) $\frac{1}{10}$
- 16) $\frac{1}{4}$

- 17) $6 \frac{5}{9}$
- 18) $4 \frac{5}{8}$
- 19) $\frac{2}{3}$
- 20) $\frac{5}{6}$

- 21) $3 \frac{1}{3}$
- 22) $1 \frac{3}{4}$
- 23) $\frac{1}{4}$
- 24) $\frac{1}{4}$

- 25) $3 \frac{3}{4}$
- 26) $6 \frac{4}{9}$
- 27) $3 \frac{1}{2}$

- 28) $2 \frac{2}{5}$
- 29) $3 \frac{1}{2}$
- 30) $3 \frac{3}{5}$

Isku dhufu :

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

$$4) \quad 12 \times 3 \frac{2}{3}$$

$$5) \quad 9 \times 6 \frac{2}{3}$$

$$6) \quad 3 \frac{3}{4} \times 2 \frac{1}{2}$$

$$7) \quad \frac{2}{3} \times 3 \frac{4}{5}$$

$$8) \quad 6 \frac{3}{8} \times \frac{2}{9}$$

$$9) \quad \frac{1}{2} \times \frac{1}{3}$$

$$10) \quad 1 \frac{3}{5} \times 6$$

$$11) \quad 2 \frac{5}{9} \times 8$$

$$12) \quad \frac{2}{4} \times \frac{5}{8}$$

$$13) \quad 5 \frac{3}{5} \times 1 \frac{1}{3}$$

$$14) \quad 6 \frac{7}{10} \times 3 \frac{1}{2}$$

$$15) \quad \frac{5}{12} \times \frac{3}{7}$$

$$16) \quad \frac{2}{9} \times 12$$

$$17) \quad \frac{3}{10} \times \frac{4}{5}$$

$$18) \quad 6 \frac{1}{4} \times 7 \frac{4}{9}$$

Isu gee. Hubi in jawaabtu tahay sansaanka ugu fudud

$$1) \quad \frac{2}{7}$$

$$2) \quad \frac{1}{2}$$

$$3) \quad 8 \frac{3}{10}$$

$$4) \quad 10 \frac{2}{3}$$

$$\frac{4}{7}$$

$$\frac{3}{5}$$

$$2 \frac{7}{10}$$

$$4 \frac{7}{3}$$

$$5) \quad \frac{1}{5}$$

$$6) \quad \frac{5}{6}$$

$$7) \quad 3 \frac{2}{3}$$

$$8) \quad \frac{1}{2}$$

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

$$\frac{1}{3}$$

$$1 \frac{1}{9}$$

$$\frac{1}{3}$$

$$9) \frac{2}{3} \quad 10) \frac{3}{4} \quad 11) \frac{2}{3} \quad 12) \frac{3}{10}$$

$$\begin{array}{r} 1 \\ 4 \end{array} \quad \begin{array}{r} 1 \\ 4 \\ 6 \end{array} \quad \begin{array}{r} 1 \\ 2 \\ 5 \end{array} \quad \begin{array}{r} 1 \\ 7 \\ 2 \end{array}$$

Kala goo. Hubi in jawaabtu tahay sansaanka ugu fudud.

$$1) \frac{4}{5} \quad 2) \frac{7}{8} \quad 3) \frac{1}{2} \quad 4) \frac{7}{10}$$

$$\begin{array}{r} 2 \\ - \\ 5 \end{array} \quad \begin{array}{r} 1 \\ - \\ 8 \end{array} \quad \begin{array}{r} 1 \\ 2 \\ - \\ 6 \end{array} \quad \begin{array}{r} 1 \\ - \\ 10 \end{array}$$

$$5) \frac{3}{3} \quad 6) \frac{2}{5} \quad 7) \frac{3}{8} \quad 8) \frac{5}{6}$$

$$\begin{array}{r} 1 \\ - \\ 7 \end{array} \quad \begin{array}{r} 4 \\ 6 \\ - \\ 5 \end{array} \quad \begin{array}{r} 1 \\ - \\ 4 \end{array} \quad \begin{array}{r} 1 \\ 2 \\ - \\ 3 \end{array}$$

$$9) \frac{3}{7} \quad 10) \frac{1}{4} \quad 11) \frac{3}{10} \quad 12) \frac{1}{12}$$

$$\begin{array}{r} 7 \\ - \\ 4 \end{array} \quad \begin{array}{r} 9 \\ - \\ 8 \end{array} \quad \begin{array}{r} 9 \\ 6 \\ - \\ 10 \end{array} \quad \begin{array}{r} 3 \\ - \\ 4 \end{array}$$

$$\begin{array}{r} 7 \\ - \\ 8 \end{array} \quad \begin{array}{r} 1 \\ 3 \\ - \\ 3 \end{array} \quad \begin{array}{r} 9 \\ 6 \\ - \\ 10 \end{array} \quad \begin{array}{r} 3 \\ - \\ 4 \end{array}$$

Isku dhufo. Isu jarjar markay suuroobayso ama mar-kaad kartid.

$$1) 7 \times \frac{3}{10} \quad 2) 6 \times \frac{3}{8} \quad 3) 12 \times \frac{5}{7}$$

$$4) \frac{1}{8} \times 32 \quad 5) \frac{5}{6} \times 30 \quad 6) \frac{2}{2} \times 27$$

$$7) \quad 8 \times 4 = \frac{1}{2}$$

$$8) \quad 10 \times 3 = \frac{3}{4}$$

$$9) \quad 5 \frac{2}{3} \times 6$$

$$10) \quad \frac{1}{2} \times \frac{1}{6}$$

$$11) \quad \frac{3}{5} \times \frac{4}{9}$$

$$12) \quad \frac{7}{8} \times \frac{2}{3}$$

$$13) \quad \frac{1}{2} \times 4 = \frac{1}{2}$$

$$14) \quad \frac{3}{8} \times 7 = \frac{3}{8}$$

$$15) \quad 6 \frac{2}{5} \times \frac{3}{10}$$

$$16) \quad 1 \frac{1}{3} \times 2 \frac{1}{4}$$

$$17) \quad 9 \frac{3}{5} \times 2 \frac{3}{10}$$

$$18) \quad 6 \frac{3}{8} \times 4 \frac{1}{2}$$

$$19) \quad 5 \times \frac{5}{9}$$

$$20) \quad \frac{6}{7} \times 42$$

$$21) \quad \frac{5}{12} \times \frac{1}{8}$$

1) Cali wuxuu xisaabta bartaa saacad $\frac{1}{2}$ keed maalin walba. Immisa saacadood ayuu xisaab bartay mud-do 12 casho ah ?

2) Kiilada nacnac ah waxa lagu gadaa 60 senti. Waa immisaa qiiimaha $\frac{3}{4}$ da kiilo nacnac ah ?

3) Cali dhererkiisu waa $56 \frac{1}{4}$ sm, Jaamacna waa $53 \frac{3}{4}$ sm. Immisaa ayuu Cali ka dheer yahay Jaamac ?

I S U Q A Y B I N

Tiro idil oo loo qaybinaayo jajab

Seynab hooyadeed 3 xabbo oo muus ah ayay mid kasta laba meelood oo isle'eg ka dhigatay. Qofkii walba waxay siii-
 sey $\frac{1}{2}$ xabbo muus ah. Immisaa qof bay wax siisey ?



Su'aashu waxaa weeye immisaa badh weeye 3?

Markaynnu doonayno inaynnu helno inta badh ee ku jirta 3, waxaynnu u fekeraynaa, immisaa badh weeye 1? Waxaynnu ognahay in laba badh ku jirto 1, markaa 3 waa 3 min 2 badh ah, ama 6 badh.

Sidan u qor :

$$3 \div \frac{1}{2} =$$

Sidan uga shaqce :

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

Marka walax jajab loo qaybinaayo, kala rog jajabka qaybi-yaha ah dabadeedna ku dhufo.

$$8 \div \frac{4}{5} = 8 \times \frac{5}{4} = 10$$

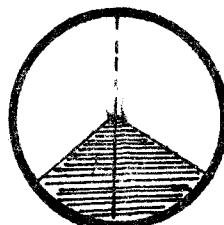
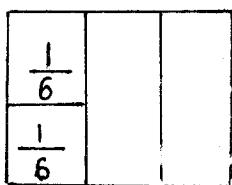
Layli :

Isu qaybi, isu jarjar markay suuroobayso.

$$\begin{array}{lll}
 1) \quad 2 \div \frac{1}{4} & 2) \quad 4 \div \frac{1}{3} & 3) \quad 3 \div \frac{1}{5} \\
 4) \quad 6 \div \frac{1}{8} & 5) \quad 2 \div \frac{1}{9} & 6) \quad 7 \div \frac{1}{7} \\
 7) \quad 6 \div \frac{1}{4} & 8) \quad 8 \div \frac{1}{3} & 9) \quad 5 \div \frac{1}{5} \\
 10) \quad 4 \div \frac{3}{4} & 11) \quad 8 \div \frac{4}{5} & 12) \quad 8 \div \frac{5}{9} \\
 13) \quad 3 \div \frac{5}{6} & 14) \quad 7 \div \frac{2}{3} & 15) \quad 10 \div \frac{3}{4}
 \end{array}$$

ISUQAYBINTA JAJAB IYO TIRO IDIL

Axmed iyo Maxamed waxay qaybsadeen $\frac{1}{3}$ keeg ah ama doolshe ah. Haddii ay labo isle'eg u kala jareen doolshadii ama keeggii, intee meelood oo keeg ah baa midkoodba helay ?



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

Sheeg sida isuqaybinta B iyo T looga shaqeyey. Dhammee shaqada J iyo X.

$$b) \frac{5}{6} \div 4 = \frac{5}{6} \times \frac{1}{4} = \frac{5}{24}$$

$$t) \frac{2}{3} \div 8 = \frac{2}{3} \times \frac{1}{8} = \frac{1}{12}$$

$$j) \frac{3}{7} \div 6 = \frac{3}{7} \times \frac{1}{6} = \frac{1}{?}$$

$$x) \frac{4}{5} \div 16 = \frac{4}{5} \times \frac{1}{16} = \frac{1}{?}$$

Layli :

Isu qaybi oo isu jarjar.

$$1) \frac{1}{2} \div 2$$

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

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

$$4) \frac{1}{5} \div 8$$

$$5) \frac{3}{8} \div 6$$

$$6) \frac{2}{7} \div 3$$

$$7) \frac{4}{7} \div 6$$

$$8) \frac{3}{10} \div 4$$

$$9) \frac{3}{5} \div 8$$

$$10) \frac{7}{8} \div 4$$

$$11) \frac{5}{6} \div 3$$

$$12) \frac{5}{12} \div 9$$

$$13) \frac{2}{9} \div 12$$

$$14) \frac{1}{3} \div 3$$

$$15) \frac{5}{11} \div 2$$

TIRO IDIL OO LOO QAYBINAAYO TIRO DHAFAN :

Bile wuxuu haystaa xarig dhererkiisu yahay 6 mitir. Wu-xuu doonayaa inuu u qaybiyo meelo $1 \frac{1}{2}$ mitir le'eg. Immisaa meelood buu Bile heli karaa ?



Su'aashu waxa weeye immisa meelood oo min $1 \frac{1}{2}$ mitir le'eg ayaa laga helayaa 6 mitir ?

$$6 \div 1 \frac{1}{2} = 6 \div \frac{3}{2} = 6 \times \frac{2}{3} = 4$$

Markaynnu tiro idil u qaybino tiro dhafan, tirada dhafan waxa loo beddelayaa jajab maqummane, dabadeedna inta la kala rogo qaybshaha ayaa la isku dhufanayaa.

$$6 \div 1 \frac{1}{2} = 6 \div \frac{3}{2} = 6 \times \frac{2}{3} = 4$$

Sheeg sida la isugu qaybiyey.

$$1) \quad 5 \div 1 \frac{1}{3} = 5 \div \frac{4}{3} = 5 \times \frac{3}{4} = \frac{15}{4} = 3 \frac{3}{4}$$

$$2) \quad 8 \div 1 \frac{3}{4} = 8 \div \frac{7}{4} = 8 \times \frac{4}{7} = \frac{32}{7} = 4 \frac{4}{7}$$

Layli :

Isu qaybi, isuna jarjar :

- 1) $4 \div 1 = \frac{1}{3}$
- 2) $8 \div 2 = \frac{1}{2}$
- 3) $10 \div 3 = \frac{1}{4}$

- 4) $10 \div 2 = \frac{2}{3}$
- 5) $12 \div 4 = \frac{3}{4}$
- 6) $8 \div 2 = \frac{3}{5}$

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

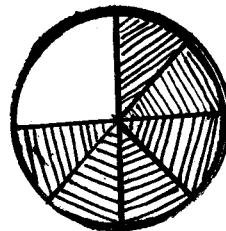
- 10) $12 \div 3 = \frac{7}{12}$
- 11) $8 \div 2 = \frac{3}{10}$
- 12) $10 \div 3 = \frac{4}{5}$

- 13) $5 \div 2 = \frac{1}{7}$
- 14) $23 \div 2 = \frac{1}{11}$
- 15) $17 \div 2 = \frac{5}{6}$

LABA JAJAB OO LA ISU QAYBINAAYO

Waxaan haystaa $\frac{3}{4}$ keeg ah ama doolshe ah. Im-

misa qof baan wax siin karaa haddii aan qofkiiba siyo $\frac{1}{8}$
oo keeggaa ah ama doolshadaa ah? Ama immisaa siddee-
deed weeye $\frac{3}{4}$?



$$\frac{3}{4} \div \frac{1}{8} = \frac{3}{4} \times \frac{2}{1} = \frac{6}{1} = 6$$

Markaynu walax u qaybinno jajab, kala rog qaybiyaha dabadeedna isku dhufu.

Sheeg sida looga shaqeeeyey tusaalooyinkan :

$$1) \quad \frac{5}{6} \div \frac{3}{2} = \frac{5}{6} \times \frac{2}{3} = \frac{5}{9}$$

$$2) \quad \frac{2}{3} \div \frac{1}{5} = \frac{2}{3} \times \frac{5}{1} = \frac{10}{3} = 3\frac{1}{3}$$

$$3) \quad \frac{1}{8} \div \frac{3}{4} = \frac{1}{8} \times \frac{4}{3} = \frac{1}{6}$$

Layli :

$$1) \quad \frac{3}{8} \div \frac{1}{4}$$

$$2) \quad \frac{2}{3} \div \frac{1}{2}$$

$$3) \quad \frac{5}{6} \div \frac{1}{3}$$

$$4) \quad \frac{1}{3} \div \frac{4}{5}$$

$$5) \quad \frac{5}{8} \div \frac{1}{6}$$

$$6) \quad \frac{3}{8} \div \frac{3}{4}$$

$$7) \quad \frac{5}{9} \div \frac{1}{3}$$

$$8) \quad \frac{7}{12} \div \frac{2}{3}$$

$$9) \quad \frac{11}{12} \div \frac{3}{10}$$

$$10) \quad \frac{1}{2} \div \frac{1}{4}$$

$$11) \quad \frac{3}{4} \div \frac{1}{5}$$

$$12) \quad \frac{9}{10} \div \frac{1}{6}$$

$$13) \quad \frac{7}{10} \div \frac{4}{5}$$

$$14) \quad \frac{3}{8} \div \frac{2}{3}$$

JAJAB LOO QAYBINAAYO TIRO DHAFAN

Jaamac wuxuu $4\frac{1}{2}$ miridh socday $\frac{1}{2}$ km. Immisuu soc-day halkii miridh ?

$$\frac{1}{2} \div 4\frac{1}{2} = \frac{1}{2} \times \frac{2}{9} = \frac{1}{9}$$

Sheeg sida isu qaybintan looga shaqeeeyey.

$$1) \quad \frac{2}{3} \div 3\frac{2}{5} = \frac{2}{3} \div \frac{17}{5} = \frac{2}{3} \times \frac{5}{17} = \frac{10}{51}$$

$$2) \quad \frac{5}{8} \div 1\frac{1}{2} = \frac{5}{8} \div \frac{3}{2} = \frac{5}{8} \times \frac{2}{3} = \frac{5}{12}$$

Layli :

Isu qaybi, isuna jarjar :

- 1) $\frac{1}{2} \div 2 \frac{1}{2}$
- 2) $\frac{2}{3} \div 4 \frac{1}{3}$
- 3) $\frac{3}{4} \div 5 \frac{1}{4}$
- 4) $\frac{5}{12} \div 1 \frac{3}{4}$
- 5) $\frac{7}{10} \div 1 \frac{2}{5}$
- 6) $\frac{3}{8} \div 2 \frac{5}{6}$
- 7) $\frac{9}{10} \div 1 \frac{5}{12}$
- 8) $\frac{4}{7} \div 1 \frac{5}{9}$
- 9) $\frac{7}{8} \div 1 \frac{5}{7}$
- 10) $\frac{2}{3} \div 1 \frac{5}{12}$
- 11) $\frac{3}{4} \div 1 \frac{5}{8}$
- 12) $\frac{5}{9} \div 1 \frac{2}{3}$
- 13) $\frac{1}{6} \div 2 \frac{1}{3}$
- 14) $\frac{8}{11} \div 2 \frac{2}{3}$
- 15) $\frac{1}{3} \div 1 \frac{1}{3}$

JAJAB IYO TIRO DHAFAN OO LA ISU QAYBINAAYO

Calii wuxuu haystaa xaaishi ah $4 \frac{1}{2}$ mitir. Wuxuuna u
googooyey meelo le'eg $\frac{1}{2}$ mitir. Immisuu samayn karaa ?



Su'aashu waxaa weeye, immisa badh weeye $4 \frac{1}{2}$?

$$4 \frac{1}{2} \div \frac{1}{2} = \frac{9}{2} \div \frac{1}{2} = \frac{9}{2} \times \frac{2}{1} = \frac{9}{1} = 9$$

Markaynnu tiro dhafan u qaybinayno jajab, tirada dhafan u beddel jajab maqummane, qaybshahana kala rog, dabadeedna isku dhufo.

Sheeg sida isuqaybinta looga shaqeeyey.

$$1) \quad 6 \frac{2}{3} \div \frac{2}{3} = \frac{20}{3} \times \frac{1}{2} = \frac{10}{1} = 10$$

$$2) \quad 5 \frac{3}{4} \div \frac{3}{4} = \frac{23}{4} \times \frac{4}{3} = \frac{23}{3} = 7 \frac{2}{3}$$

Layli :

$$1) \quad 3 \frac{1}{2} \div \frac{1}{2}$$

$$2) \quad 4 \frac{1}{3} \div \frac{1}{3}$$

$$3) \quad 2 \frac{1}{8} \div \frac{1}{8}$$

$$4) \quad 6 \frac{1}{2} \div \frac{5}{6}$$

$$5) \quad 2 \frac{2}{3} \div \frac{3}{4}$$

$$6) \quad 5 \frac{1}{4} \div \frac{5}{8}$$

$$7) \quad 10 \frac{3}{5} \div \frac{1}{3}$$

$$8) \quad 3 \frac{4}{4} \div \frac{3}{10}$$

$$9) \quad 8 \frac{5}{9} \div \frac{2}{3}$$

$$10) \quad 10 \frac{3}{4} \div \frac{5}{10} \qquad 11) \quad 6 \frac{5}{12} \div \frac{1}{2} \qquad 12) \quad 7 \frac{1}{10} \div \frac{4}{5}$$

$$13) \quad 2 \frac{1}{7} \div \frac{5}{7} \qquad 14) \quad 2 \frac{2}{11} \div 1 \frac{2}{11} \qquad 15) \quad 1 \frac{1}{12} \div \frac{1}{6}$$

Caasha waxay haysataa maro $4 \frac{1}{2}$ mitir le'eg. Waxay ka samaysay maradii 6 maro oo miis. Immisa ayay dherer le'eg tahay maradii waliba ?

--	--	--	--	--	--	--

$$\begin{array}{r} 3 \\ - \\ 4 \end{array} \qquad \begin{array}{r} 3 \\ - \\ 4 \end{array}$$

$$4 \frac{1}{2} \div 6 = \frac{9}{2} \times \frac{1}{6} = \frac{3}{2}$$

Markaynnu tiro dhafan u qaybinayno tiro idil, waxaynnu tirada dhafan u beddelnaa jajab maqummane, dabadeedna qaybshaha ayaynu kala rognaa markaasaynnu isku dhufannaa.

Sheeg sida isu qaybintan looga shaqeeyey.

$$1) \quad 3 \frac{1}{3} \div 2 = \frac{10}{3} \times \frac{1}{2} = \frac{5}{3} = 1 \frac{2}{3}$$

$$2) \quad 5 \frac{3}{4} \div 8 = \frac{23}{4} \times \frac{1}{8} = \frac{23}{32}$$

Layli :

Isu qaybi. Isu jarjar markay suuroobayso.

$$1) \quad 4 \frac{2}{3} \div 2$$

$$2) \quad 7 \frac{3}{5} \div 10$$

$$3) \quad 6 \frac{3}{8} \div 2$$

$$4) \quad 12 \frac{4}{5} \div 3$$

$$5) \quad 1 \frac{7}{8} \div 4$$

$$6) \quad 16 \frac{2}{3} \div 8$$

$$7) \quad 11 \frac{5}{6} \div 8$$

$$8) \quad 8 \frac{5}{12} \div 6$$

$$9) \quad 10 \frac{3}{10} \div 5$$

$$10) \quad 14 \frac{1}{8} \div 3$$

$$11) \quad 9 \frac{5}{9} \div 12$$

$$12) \quad 20 \frac{2}{3} \div 16$$

$$13) \quad 5 \frac{1}{7} \div 4$$

$$14) \quad 2 \frac{4}{6} \div 5$$

$$15) \quad 3 \frac{4}{8} \div 2$$

ISUQAYBINTA TIROOYINKA DHAFAN :

Caasha waxay masarro ka samaynaysay maro dherer le'eg $3 \frac{1}{4}$

mitir. Masarkii waliba wuxuu u baahan yahay $1 \frac{1}{4}$ mitir.

Immisa masar bay samayn kartaa ?

$$3 \frac{3}{4} \div 1 \frac{1}{4} = \frac{15}{4} \div \frac{5}{4} = \frac{15}{4} \times \frac{1}{5} = \frac{3}{1} = 3$$

Marka tirooyin dhafan la isu qaybinaayo, marka hore waxaynu u beddelnaa ja ja b maqummanayaal. Dabadeedna waxaynu kala rognaa qaybshaha markaaseynu isku dhufanaa.

Sheeg sida la isugu qaybiyey.

$$1) \quad 6 \frac{1}{2} \div 1 \frac{1}{2} = \frac{13}{2} \div \frac{3}{2} = \frac{13}{2} \times \frac{2}{3} = \frac{13}{3} = 4 \frac{1}{3}$$

$$2) \quad 5 \frac{1}{3} \div 2 \frac{3}{4} = \frac{16}{3} \div \frac{11}{4} = \frac{16}{3} \times \frac{4}{11} = \frac{64}{33} = 1 \frac{31}{33}$$

Isu qaybi. Isu jarjar markay suuroobayso :

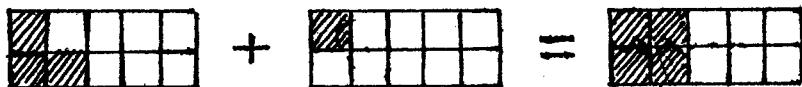
$$1) \quad 5 \frac{1}{4} \div 1 \frac{3}{4} \quad 2) \quad 2 \frac{5}{8} \div 1 \frac{3}{4} \quad 3) \quad 9 \frac{1}{7} \div 2 \frac{1}{3}$$

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

$$7) \quad 5 \frac{5}{6} \div 16 \frac{1}{4} \quad 8) \quad 3 \frac{3}{5} \div \frac{14}{5} \quad 9) \quad 2 \frac{1}{2} \div 3 \frac{1}{5}$$

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

ISUGEYNTA TOBNEEDDO



$$3 \text{ tobneed} + 1 \text{ tobneed} = 4 \text{ tobneed}$$

3
$3 \text{ tobneed} = \frac{3}{10} \text{ ama } 0.3$
1
$1 \text{ tobneed} = \frac{1}{10} \text{ ama } 0.1$
4
$4 \text{ tobneed} = \frac{4}{10} \text{ ama } 0.4$

	3 tobneed	+	1 tobneed	=	4 tobneed
Jajab	$\frac{3}{10}$	+	$\frac{1}{10}$	=	$\frac{4}{10}$
Jajab tobanle	0.3	+	0.1	=	0.4



$$5 \text{ tobneed} + 3 \text{ tobneed} = 8 \text{ tobneed}$$

$$5 \text{ tobneed} = \frac{5}{10} \text{ ama } 0.5$$

$$3 \text{ tobneed} = \frac{3}{10} \text{ ama } 0.3$$

$$8 \text{ tobneed} = \frac{8}{10} \text{ ama } 0.8$$

	5 tobneed	+	3 tobneed	=	8 tobneed
jajab	5 — 10		3 — 10		8 — 10
Jajab tobanle	0.5	+	0.3	=	0.8



$$5 \text{ tobneed} + 5 \text{ tobneed} = 10 \text{ tobneed}$$

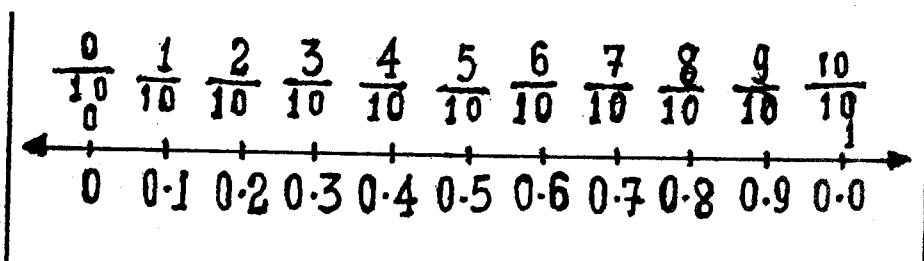
$$5 \text{ tobneed} = \frac{5}{10} \text{ ama } 0.5$$

$$5 \text{ tobneed} = \frac{5}{10} \text{ ama } 0.5$$

$$10 \text{ tobneed} = \frac{10}{10} \text{ ama } 1.0$$

	5 tobneed	+	5 tobneed	=	10 tobneed
Jajab	5 — 10	+	5 — 10	=	10 — 10
Jajab tobanle	0.5	+	0.5	=	1.0

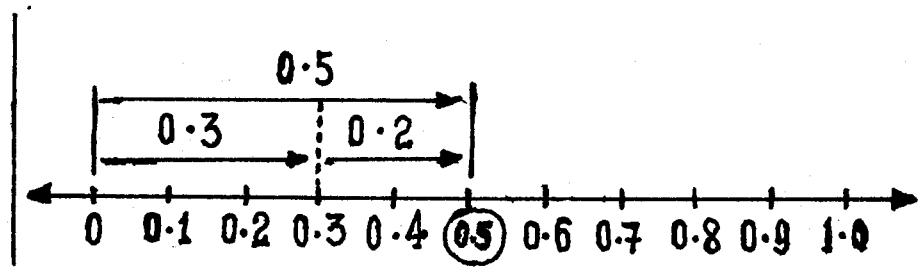
XARIHQDA TIRADA



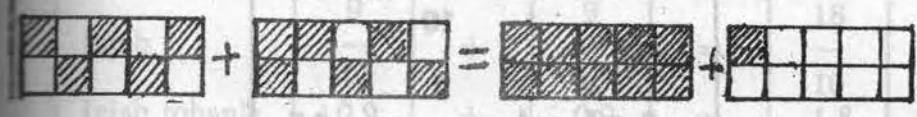
Tusaale :

Isu gee 0.3 iyo 0.2

Isticmaal xariiqda tirada.



Isugeynta 0.3 iyo 0.2 waxay la mid tahay socod dhan 0.3 midig u socosho oo ay raacday 0.2 midig u socosho.



$$5 \text{ tobneed} + 6 \text{ tobneed} = 11 \text{ tobneed}$$

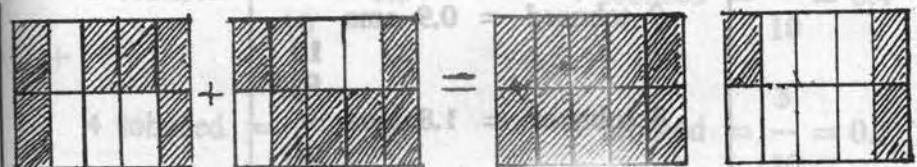
$$5 \text{ tobneed} = \frac{5}{10} \text{ ama } 0.5$$

baendot 5	=	baender 1	+	baendot 6	
				6	
				10	
				0.6	dejel

$$11 \text{ tobneed} = \frac{11}{10} \text{ ama } 1.1$$

$$5 \text{ tobneed} + 6 \text{ tobneed} = 11 \text{ tobneed}$$

Jajab	5	+	6	=	11
	10		10		10
Jajab tobanel	0.5	+	0.6	=	1.1



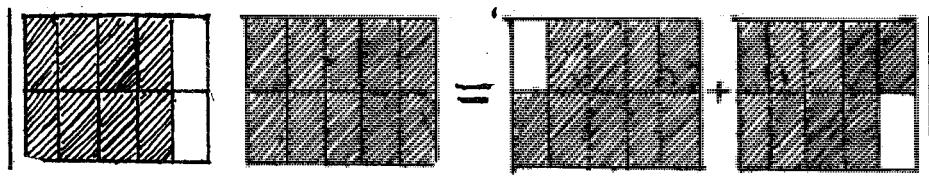
$$6 \text{ tobneed} + 7 \text{ tobneed} = 13 \text{ tobneed}$$

$$6 \text{ tobneed} = \frac{6}{10} \text{ ama } 0.6$$

$$7 \text{ tobneed} = \frac{7}{10} \text{ ama } 0.7$$

$$13 \text{ tobneed} = \frac{13}{10} \text{ ama } 1.3$$

	6 tobneed	+	7 tobneed	=	13 tobneed
Jajab	6 — 10	+	7 — 10	=	13 — 10
Jajab tobanle	0.6	+	0.7	=	1.3



$$9 \text{ tobneed} + 9 \text{ tobneed} = 18 \text{ tobneed}$$

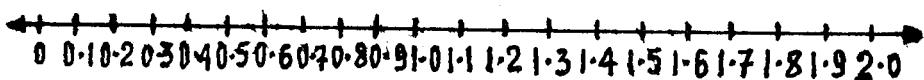
$$9 \text{ tobneed} = 0.9 \text{ ama } \frac{9}{10}$$

$$8 \text{ tobneed} = 1.8 \text{ ama } \frac{9}{10}$$

$$8 \text{ tobneed} = 1.8 \text{ ama } \frac{18}{10}$$

	9 tobneed	+	9 tobneed	=	18 tobneed
Jajab	9	+	9	=	18
Jajab tobanle	10 0.9	+	10 0.9	=	10 1.8

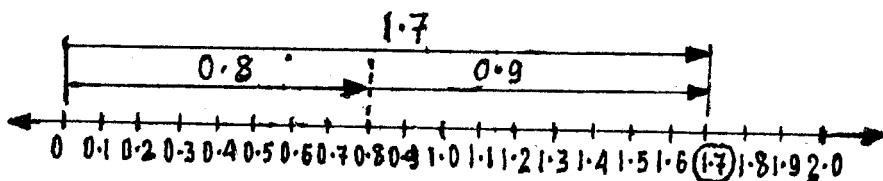
XARRIIQDA TIRADA



Tusaale :

Isu gee 0.8 iyo 0.9.

Isticmaal xariiqda tirada.



Isugeynta 0.8 iyo 0.9 waxay la mid tahay socod min eber ilaa 8 tobneed ah oo uu raacay socod 9 tobneed ah, waxyyna ku gaarsiinayaan 17 tobneed.

$$\begin{array}{r}
 3 \text{ tobneed} = \frac{3}{10} = 0.3 \\
 + \\
 4 \text{ tobneed} = \frac{4}{10} = 0.4
 \end{array}
 \qquad
 \begin{array}{r}
 4 \text{ tobneed} = \frac{4}{10} = 0.4 \\
 + \\
 3 \text{ tobneed} = \frac{3}{10} = 0.3
 \end{array}$$

$$\begin{array}{r}
 7 \text{ tobneed} = \frac{7}{10} = 0.7 \\
 + \\
 7 \text{ tobneed} = \frac{7}{10} = 0.7
 \end{array}$$

KALAHORMARINTA ISUGEYNTA
JAJAB TOBANLE

$$0.8 - 0.4 = 0.7 = 0.4 + 0.3.$$

$8 \text{ tobneed} = \frac{8}{10} = 0.8$	$5 \text{ tobneed} = \frac{5}{10} = 0.5$
$+$	$+$
$5 \text{ tobneed} = \frac{5}{10} = 0.5$	$8 \text{ tobneed} = \frac{8}{10} = 0.8$
$13 \text{ tobneed} = \frac{13}{10} = 1.3$	$13 \text{ tobneed} = \frac{13}{10} = 1.3$

$$0.8 + 0.5 = 1.3 = 0.5 + 0.8$$

$5 \text{ tobneed} = \frac{5}{10} = 0.5$	$1 \text{ tobneed} = \frac{1}{10} = 0.1$
$+$	$+$
$1 \text{ tobneed} = \frac{1}{10} = 0.1$	$3 \text{ tobneed} = \frac{3}{10} = 0.3$
$6 \text{ tobneed} = \frac{6}{10} = 0.6$	$4 \text{ tobneed} = \frac{4}{10} = 0.4$
$+$	$+$
$3 \text{ tobneed} = \frac{3}{10} = 0.3$	$5 \text{ tobneed} = \frac{5}{10} = 0.5$
$9 \text{ tobneed} = \frac{9}{10} = 0.9$	$9 \text{ tobneed} = \frac{9}{10} = 0.9$

$$0.2 + 0.3 = 0.5$$

$$0.3 + 0.4 = 0.7$$

$$0.5 + 0.4 = 0.9$$

$$0.7 + 0.2 = 0.9$$

HORMOGELINTA ISUGEYNTA
JAJAB TOBANLE

$$(0.5 + 0.1) + 0.3 = 0.9 = 0.5 + (0.1 + 0.3)$$

$$2 \text{ tobneed} = \frac{2}{10} = 0.2$$

$$6 \text{ tobneed} = \frac{6}{10} = 0.6$$

+

+

$$6 \text{ tobneed} = \frac{6}{10} = 0.6$$

$$3 \text{ tobneed} = \frac{3}{10} = 0.3$$

$$8 \text{ tobneed} = \frac{8}{10} = 0.8$$

$$9 \text{ tobneed} = \frac{9}{10} = 0.9$$

+

+

$$3 \text{ tobneed} = \frac{3}{10} = 0.3$$

$$2 \text{ tobneed} = \frac{2}{10} = 0.2$$

$$11 \text{ tobneed} = \frac{11}{10} = 1.1$$

$$11 \text{ tobneed} = \frac{11}{10} = 1.1$$

$$(0.2 + 0.6) + 0.3 = 1.1 = 0.2 (0.6 + 0.3)$$

Layli :

- 1) Buuxi meelaha bannaan.

Tusaale :

$$6 \text{ tobneed} + 9 \text{ tobneed} = ? \text{ ama ?}$$

$$6 \text{ tobneed} + 9 \text{ tobneed} = 15 \text{ tobneed ama } 1.5$$

Jawaab :

b) $3 \text{ tobneed} + 4 \text{ tobneed} = ? \text{ ama ?}$

t) $2 \text{ tobneed} + 5 \text{ tobneed} = ? \text{ ama ?}$

j) $1 \text{ tobneed} + 6 \text{ tobneed} = ? \text{ ama ?}$

x) $8 \text{ tobneed} + 7 \text{ tobneed} = ? \text{ ama ?}$

kh) $5 \text{ tobneed} + 3 \text{ tobneed} = ? \text{ ama ?}$

- 2) Buuxi meelaha bannaan.

Tusaale :

Jawaab :

$$\frac{2}{10} + \frac{7}{10} = ? \text{ ama ?}$$

$$\frac{2}{10} + \frac{7}{10} = \frac{9}{10} \text{ ama } 0.9$$

b) $\frac{1}{10} + \frac{7}{10} = ?$ ama ?

t) $\frac{2}{10} + \frac{6}{10} = ?$ ama ?

j) $\frac{8}{10} + \frac{9}{10} = ?$ ama ?

x) $\frac{9}{10} + \frac{3}{10} = ?$ ama ?

kh) $\frac{3}{10} + \frac{2}{10} + \frac{6}{10} = ?$ ama ?

3) Ku qor meesha bannaan wadarta tirooyinkaan.

T u s a a l e :

$$0.1 + 0.7 + 0.2 = ?$$

Jawaab :

$$0.1 + 0.7 + 0.2 = 1.0$$

b) $0.6 + 0.8 = ?$ t) $0.2 + 0.5 + 0.3 = ?$

j) $0.6 + 0.9 = ?$

x) 0.2

$$\begin{array}{r} + 0.3 \\ \hline 0.1 \end{array}$$

kh) 0.1

$$\begin{array}{r} + 0.6 \\ \hline 0.3 \end{array}$$

d) 0.4

$$\begin{array}{r} + 0.2 \\ \hline 0.5 \end{array}$$

$$\begin{array}{r} ? \\ \hline \end{array}$$

$$\begin{array}{r} ? \\ \hline \end{array}$$

4) Ku muuji xariiqda tirada isugeymahan soo socda :

Tusaale :

$$0.8 + 0.4 \quad \text{Jawab : } \frac{8}{10} + \frac{4}{10} = \frac{12}{10}$$

Tusaale :

$$6 \text{ tobneed} + 9 \text{ tobneed} = \frac{6}{10} + \frac{9}{10} = \frac{15}{10}$$

$$\text{b)} \quad 0.7 + 0.3 = \frac{7}{10} + \frac{3}{10} = \frac{10}{10} = 1.0$$

$$\text{j)} \quad 0.9 + 0.4 = \frac{9}{10} + \frac{4}{10} = \frac{13}{10} = 1.3$$

Jawab :

ISUGEYNTA TOBNEED :

$$10 \text{ tobneed} + 2 \text{ tobneed} = 12 \text{ tobneed}$$

tiro	astirada jajab	astirada jajab tobanel
2 tobneed	$\frac{2}{10}$	0.2
+ 10 tobneed	$\frac{10}{10}$	1.0
12 tobneed	$\frac{12}{10}$	1.2

Labadii tiro isu gee adoo isticmaalaya astirada jajab.

$$\frac{10}{10} + \frac{2}{10} = \frac{10+2}{10} = \frac{12}{10}$$

Bal haddaana isticmaal astirada jabjab tobanel.

$$1.0 + 0.2 = 1.2$$

$$15 \text{ tobneed} + 4 \text{ tobneed} = 19 \text{ tobneed}$$

tiro	astirada jajab	astirada jajab tobanel
15 tobneed +	$\begin{array}{r} 15 \\ - \\ 10 \end{array}$ 4 $\begin{array}{r} 4 \\ - \\ 10 \end{array}$	1.5 0.4
19 tobneed	$\begin{array}{r} 19 \\ - \\ 10 \end{array}$	1.9

$$10 \text{ tobneed} + 10 \text{ tobneed} = 20 \text{ tobneed}$$

tiro	astirada jajab	astirada jajab tobanel
10 tobneed +	$\begin{array}{r} 10 \\ - \\ 10 \end{array}$ $\begin{array}{r} 10 \\ - \\ 10 \end{array}$	1.0 1.0
20 tobneed	$\begin{array}{r} 20 \\ - \\ 10 \end{array}$	2.0

$$12 \text{ tobneed} + 14 \text{ tobneed} = 26 \text{ tobneed}$$

tiro	astirada jajab	astirada jajab tobanle
12 tobneed +	12 — 10 14 — 10	1.2 1.4
14 tobneed	26 — 10	2.6
26 tobneed		

$$15 \text{ tobneed} + 16 \text{ tobneed} = 31 \text{ tobneed}$$

tiro	astirada jajab	astirada jajab tobanle
15 tobneed +	15 — 10 16 — 10	1.5 1.6
16 tobneed	31 — 10	3.1
31 tobneed		

X u s u u s o :

Wadarta tobneeddo waa tobneed

Layli :

1) Raadi wadarta biirooyinkan;

b) 11 tobneed
+ 6 tobneed

t) 13 tobneed
+ 3 tobneed

$$\begin{array}{r} j) \quad 7 \text{ tobneed} \\ + 13 \text{ tobneed} \\ \hline \end{array}$$

$$\begin{array}{r} x) \quad 12 \text{ tobneed} \\ + 17 \text{ tobneed} \\ \hline \end{array}$$

$$\begin{array}{r} kh) \quad 15 \text{ tobneed} \\ + 18 \text{ tobneed} \\ \hline \end{array}$$

$$\begin{array}{r} d) \quad 14 \text{ tobneed} \\ + 3 \text{ tobneed} \\ \hline \end{array}$$

$$6 \text{ tobneed}$$

2) Raadi biiraha maqan.

$$b) \quad 0.3 + ? = 0.7$$

$$t) \quad 1.4 + ? = 2.0$$

$$j) \quad 1.2 + ? = 2.9$$

$$x) \quad 3.0 + ? = 4.1$$

$$kh) \quad 1.7 + ? = 3.2$$

$$d) \quad 3.6 + ? = 1.7$$

ISUGEYNTA BOQLEEDDO

$$5 \text{ boqleed} + 4 \text{ boqleed} = 9 \text{ boqleed}$$

tiro	astirada jajab	astirada jajab tobanle
5 boqleed	$\begin{array}{r} 5 \\ -- \\ 100 \end{array}$	0.05
+		
4 boqleed	$\begin{array}{r} 4 \\ -- \\ 100 \end{array}$	0.04
9 boqleed	$\begin{array}{r} 9 \\ -- \\ 100 \end{array}$	0.09

$$3 \text{ boqleed} + 8 \text{ boqleed} = 11 \text{ boqleed}$$

tiro	astirada jajab	astirada jajab tobanle
3 boqleed +	$ \begin{array}{r} 3 \\ - \\ 100 \end{array} $	0.03
8 boqleed	$ \begin{array}{r} 8 \\ - \\ 100 \end{array} $	0.08
11 boqleed	$ \begin{array}{r} 11 \\ - \\ 100 \end{array} $	0.11

$$12 \text{ boqleed} + 6 \text{ boqleed} = 18 \text{ boqleed}$$

tiro	astirada jajab	astirada jajab tobanle
12 boqleed +	$ \begin{array}{r} 12 \\ - \\ 100 \end{array} $	0.12
6 boqleed	$ \begin{array}{r} 6 \\ - \\ 100 \end{array} $	0.06
18 boqleed	$ \begin{array}{r} 18 \\ - \\ 100 \end{array} $	0.18

$$11 \text{ boqleed} + 29 \text{ boqleed} = 40 \text{ boqleed}$$

tiro	astirada jajab	astirada jajab tobanle
11 boqleed +	$ \begin{array}{r} 11 \\ - - \\ 100 \end{array} $ $ \begin{array}{r} 29 \\ - - \\ 100 \end{array} $	0.11 0.29
40 boqleed	$ \begin{array}{r} 40 \\ - - \\ 100 \end{array} $	0.40

$$55 \text{ boqleed} + 46 \text{ boqleed} = 101 \text{ boqleed}$$

tiro	astirada jajab	astirada jajab tobanle
55 boqleed +	$ \begin{array}{r} 55 \\ - - \\ 100 \end{array} $ $ \begin{array}{r} 46 \\ - - \\ 100 \end{array} $	0.55 0.46
101 boqleed	$ \begin{array}{r} 101 \\ - - \\ 100 \end{array} $	1.01

$$15 \text{ boqleed} + 102 \text{ boqleed} = 117 \text{ boqleed}$$

tiro	astirada jajab	astirada jajab tobanle
15 boqleed +	$\begin{array}{r} 15 \\ - 100 \\ \hline 102 \end{array}$	0.15 1.02
102 boqleed	$\begin{array}{r} 102 \\ - 100 \\ \hline \end{array}$	
117 boqleed	$\begin{array}{r} 117 \\ - 100 \\ \hline \end{array}$	1.17

$$113 \text{ boqleed} + 59 \text{ boqleed} = 172 \text{ boqleed}$$

tiro	astirada jajab	astirada jajab tobanle
113 boqleed +	$\begin{array}{r} 113 \\ - 100 \\ \hline 59 \end{array}$	1.13 0.59
59 boqleed	$\begin{array}{r} 59 \\ - 100 \\ \hline \end{array}$	
172 boqleed	$\begin{array}{r} 172 \\ - 100 \\ \hline \end{array}$	1.72

$$65 \text{ boqleed} + 136 \text{ boqleed} = 201 \text{ boqleed}$$

tiro	astirada jajab	astirada jajab tobanle
65 boqleed +	$\begin{array}{r} 65 \\ - \\ 100 \end{array}$ $\begin{array}{r} 136 \\ - \\ 100 \end{array}$	0.65 1.36
136 boqleed		
201 boqleed	$\begin{array}{r} 201 \\ - \\ 100 \end{array}$	2.01

$$165 \text{ boqleed} + 142 \text{ boqleed} = 307 \text{ boqleed}$$

tiro	astirada jajab	astirada jajab tobanle
165 boqleed +	$\begin{array}{r} 165 \\ - \\ 100 \end{array}$ $\begin{array}{r} 142 \\ - \\ 100 \end{array}$	1.65 1.42
142 boqleed		
307 boqleed	$\begin{array}{r} 307 \\ - \\ 100 \end{array}$	3.07

$$125 \text{ boqleed} + 8 \text{ boqleed} + 52 \text{ boqleed} = 185 \text{ boqleed}$$

tiro	astirada jajab	astirada jajab tobanle
125 boqleed	$\begin{array}{r} 125 \\ - \\ 100 \end{array}$	1.25
8 boqleed	$\begin{array}{r} 8 \\ - \\ 100 \end{array}$	0.08
+		
52 boqleed	$\begin{array}{r} 52 \\ - \\ 100 \end{array}$	0.52
185 boqleed	$\begin{array}{r} 185 \\ - \\ 100 \end{array}$	1.85

Xusus :

WADARTA BOQLEEDDO WAA BOQLEED . . .

Layli :

1) Raadi wadarta birooyinkan.

$$\begin{array}{r} b) \quad 8 \text{ tobneed} \\ + \quad 3 \text{ tobneed} \\ \hline \end{array}$$

$$\begin{array}{r} t) \quad 15 \text{ tobneed} \\ + \quad 7 \text{ tobneed} \\ \hline \end{array}$$

$$\begin{array}{r} j) \quad 16 \text{ tobneed} \\ + \quad 18 \text{ tobneed} \\ \hline \end{array}$$

$$\begin{array}{r} x) \quad 99 \text{ tobneed} \\ + \quad 3 \text{ tobneed} \\ \hline \end{array}$$

$$\begin{array}{r} \text{kh)} \ 174 \ \text{tobneed} \\ + \ 17 \ \text{tobneed} \\ \hline \end{array}$$

$$\begin{array}{r} \text{d)} \ 165 \ \text{tobneed} \\ + \ 58 \ \text{tobneed} \\ \hline \end{array}$$

$$\begin{array}{r} \text{r)} \ 1.25 \\ + \ 2.83 \\ \hline \end{array}$$

$$\begin{array}{r} \text{s)} \ 8.30 \\ + \ 0.86 \\ \hline \end{array}$$

$$\begin{array}{r} \text{sh)} \ 9.68 \\ + \ 0.26 \\ \hline \end{array}$$

$$\begin{array}{r} \text{dh)} \ 9.74 \\ + \ 1.21 \\ \hline \end{array}$$

$$\begin{array}{r} \text{c)} \ 12.03 \\ + \ 8.88 \\ \hline \end{array}$$

$$\begin{array}{r} \text{g)} \ 26.64 \\ 8.57 \\ \hline \end{array}$$

2) Raadi biirooyinkan maqan :

$$\text{b)} \ 1.25 + ? = 1.60$$

$$\text{t)} \ 0.05 + ? = 1.05$$

$$\text{j)} \ ? + 6.21 = 8.43$$

$$\text{x)} \ 6.01 = ? + 2.10$$

ISUGEYNTA JA JAB TOBANLE ISKU JACBURAN

I s u g e e :

4 tobneed iyo 55 boqleed.

F u r f u r i s :

waxa aynu naqaan in 4 tobneed ay u dhiganto 40 boqleed. Haddaba, 4 tobneed + 55 boqleed = 40 boqleed + 55 boqleed = 95 boqleed. Haddii aynu jawaabta qaarkeeda dambe ku qorno astirada jabjab tobantle waxa ay noqon sidan:

$$0.4 + 0.55 = 0.40 + 0.55 = 0.95.$$

I s u g e e :

$$0.3 + 0.28 + 0.132$$

F u r f u r i s :

$$0.3 \text{ waxa ay u dhigantaa } 0.300$$

$$0.28 \text{ waxa ay u dhigantaa } 0.280$$

Haddaba,

$$\begin{array}{r} 0.300 \\ + 0.280 \\ \hline 0.132 \\ \hline \hline 0.712 \\ \hline \end{array}$$

I s u g e e :

$$15 \text{ tobneed} + 65 \text{ boqleed} + 5 \text{ kumeed.}$$

F u r f u r i s :

$$15 \text{ tobneed waxa ay u dhigantaa } 1500 \text{ kumeed.}$$

$$65 \text{ boqleed waxa ay u dhigantaa } 650 \text{ kumeed.}$$

Haddaba,

$$\begin{aligned} &= 1500 \text{ kumeed} + 650 \text{ kumeed} + 5 \text{ kumeed} \\ &= 2.155 \text{ kumeed.} \end{aligned}$$

Astirada jajab tobanle waxay ku noqon :

$$1.5 + 0.65 + 0.005 = 1.500 + 0.65 + 0.005 = 2.155$$

I s u g e e :

$$1.2 + 2.26 + 3.102$$

F u r f u r i s :

1.2 waxay u dhigantaa 1.200

2.26 waxay u dhigantaa 2.260

Haddaba,

1.2 + 2.26 + 3.102 waxay u dhigantaa

$$\begin{array}{r} 1.200 \\ 2.260 \\ + 3.102 \\ \hline 6.562 \end{array}$$

X u s u u s :

Jajab tobanleyaasha kala duwan waxaad u rogtaa ka qimaha rugta ugu yar ah.

I) Raadi wadarta tirooyinkan :

- b) 2 tobneed + 3 boqleed.
- t) 60 boqleed + 14 kumeed.
- j) 5 tobneed + 15 boqleed + 126 kumeed.
- x) 6 tobneed + 160 kumeed.
- kh) 3 tobneed + 97 boqleed.
- d) 15 tobneed + 102 boqleed + 108 kumeed.
- r) 18 tobneed + 4 boqleed + 2013 kumeed:

II) Raadi wadarta tirooyinkan :

- | | |
|--------------------------|-------------------------|
| b) $0.1 + 0.18$ | t) $0.6 + 0.308$ |
| j) $0.23 + 0.017$ | x) $0.8 + 0.26 + 0.126$ |
| kh) $0.9 + 0.99 + 0.999$ | d) $1.0 + 1.00 + 1.000$ |
| r) $1.5 + 1.65 + 1.203$ | s) $2.3 + 1.09 + 4.021$ |

KALAGOYNTA JAjab TOBANLE

Weedh tiro :

$$0.2 + ? = 0.8$$

Weyddiinta weedhu waxay ay tahay; maxaa laba tobneed loo geeyey si ay wadartu u noqoto siddeed tobneed. Jawaabtu waa 6 tobneed. Waayo, $0.2 + 0.6 = 0.8$

Weyddiin la mid ihi waxa ay tahay : waa maxay haraagu marka siddeed tobneed laga «gooyo» laba tobneed. Jawaabtu waa 6 tobneed. Weedheeda tiradu waxa ay tahay :

$$0.8 - 0.2 = 0.6$$

Weedh tiro :

$$0.6 + ? = 1.6$$

Jawaabtu waa 1.0.

Weedha kalagoyn ta ee u dhigantaa waxa ay tahay :

$$1.6 - 0.6 = ?$$

Jawaabtu waa 1.0.

Weedh tiro :

$$? + 0.25 = 0.75$$

Jawaabtu waa 0.50.

Weedha kalagoyn ta ee u dhigantaa waxa ay tahay :

$$? = 0.75 - 0.25$$

Jawaabtu waa 0.50.

Weedh tiro :

$$2.05 + ? = 3.61$$

Jawaabtu waa 1.56.

Weedha kalagoynta ee u dhigantaa waxa ay tahay :

$$3.61 - 2.05 = ?$$

Jawaabtu waa 1.56.

Bal u fiirso, rugta boqleed ee lagagooyuhu way ka yar tahay tan boqleed ee lagooyaha. Sidi tirada idil, ayaa hal laga soo amaanayaa rugta bidix ka xigta. Halkan rugta tobneed ee lagagooyaha ee wadarta qiimaheedu tahay 6 tobneed ayaynu 1 tobneed ka soo amaan. Marka uu ku soo biiro rugta boqleed ee lagagooyaha wadarta qiiimahiisu waxay tahay 10 tobneed. Wadarta qiiimaha rugtoo dhammi waxa ay tahay 11 boqleed. Marka 11 boqleed laga gooyo shan boqleed jawaabtu waa 6 boqleed.

Weedh tiro :

$$3.46 + ? = 5.32$$

Jawaabtu waa 1.36

Weedha kalagoynta ee u dhigantaa waxa ay tahay :

$$5.32 - 3.46 = ?$$

Jawaabtu waa 1.86

L a y l i :

I) Raadi biirada maqan.

$$\begin{array}{r} b) \quad 0.6 \\ + \quad ? \\ \hline \end{array}$$

$$\begin{array}{r} t) \quad 0.7 \\ + \quad ? \\ \hline \end{array}$$

$$\begin{array}{r} j) \quad 3.8 \\ + \quad ? \\ \hline \end{array}$$

$$\begin{array}{r} 0.9 \\ \hline \end{array}$$

$$\begin{array}{r} 1.5 \\ \hline \end{array}$$

$$\begin{array}{r} 4.9 \\ \hline \end{array}$$

$$\begin{array}{r} \text{x) } 0.63 \\ + ? \\ \hline 0.96 \end{array}$$

$$\begin{array}{r} \text{kh) } 0.45 \\ + ? \\ \hline 1.78 \end{array}$$

$$\begin{array}{r} \text{d) } 0.8 \\ + ? \\ \hline 2.2 \end{array}$$

$$\begin{array}{r} \text{r) } 2.63 \\ + ? \\ \hline 2.98 \end{array}$$

$$\begin{array}{r} \text{s) } 5.02 \\ + ? \\ \hline 5.11 \end{array}$$

II) Kala goo tirooyinkan :

$$\begin{array}{r} \text{b) } 0.9 \\ - 0.4 \\ \hline \end{array}$$

$$\begin{array}{r} \text{t) } 1.3 \\ - 1.2 \\ \hline \end{array}$$

$$\begin{array}{r} \text{j) } 3.9 \\ - 0.8 \\ \hline \end{array}$$

$$\begin{array}{r} \text{x) } 0.12 \\ - 0.01 \\ \hline \end{array}$$

$$\begin{array}{r} \text{kh) } 2.09 \\ - 1.03 \\ \hline \end{array}$$

$$\begin{array}{r} \text{d) } 3.10 \\ - 2.06 \\ \hline \end{array}$$

$$\begin{array}{r} \text{r) } 4.36 \\ - 3.82 \\ \hline \end{array}$$

$$\begin{array}{r} \text{s) } 6.32 \\ - 5.76 \\ \hline \end{array}$$

$$\begin{array}{r} \text{sh) } 9.03 \\ - 6.20 \\ \hline \end{array}$$

$$\begin{array}{r} \text{dh) } 6.5 - 1.25 = ? \\ \text{c) } 8.6 \\ - 2.35 \\ \hline \end{array}$$

$$\begin{array}{r} \text{g) } 1.678 \\ - 0.382 \\ \hline \end{array}$$

$$\text{f) } 24.9 - 6.8 = ?$$

Iskudhufashada tiro idil iyo Jajab tobanle

Waa maxay taranku :

$$3 \times 0.2 = ?$$

waxa aynu ognahay

$$0.2 = 2 \text{ tobneed} = \frac{2}{10}$$

Jajab tobanie

$$3 \times 0.2$$

Jajab

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

$$3 \times 2 \text{ tobneed} = 6 \text{ tobneed}$$

$$3 \times \frac{2}{10} = \frac{3 \times 2}{10} = \frac{6}{10}$$

Bal eeg isugeyntan :

$$0.2 + 0.2 + 0.2 = 0.6$$

Haddaba,

$$\boxed{3 \times 0.2 = 0.6}$$

Waa maxay taranku :

$$5 \times 0.3 = ?$$

$$\text{Waxa aynu naqaan in } 0.3 = 3 \text{ tobneed} = \frac{3}{10}$$

Jajab tobanie

Jajab

$$5 \times 0.3$$

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

$$5 \times 3 \text{ tobneed} = 15 \text{ tobneed}$$

$$5 \times \frac{3}{10} = \frac{5 \times 3}{10} = \frac{15}{10}$$

Bal eeg isugeynta

$$0.3 + 0.3 + 0.3 + 0.3 + 0.3 = 1.5$$

Haddaba,

$$\boxed{5 \times 0.3 = 1.5}$$

Waa maxay taranka $2 \times 0.32 = ?$

waxa aynu naqaan in $0.32 = 32$ boqleed = $\frac{32}{100}$

Jajab tobanle

$$2 \times 0.32$$

Jajab

$$2 \times \frac{32}{100}$$

$$2 \times 32 \text{ boqleed} = 64 \text{ boqleed}$$

$$2 \times \frac{32}{100} = \frac{2 \times 32}{100} = \frac{64}{100}$$

Bal eeg isugeynta :

$$0.32 + 0.32 = 0.64$$

Haddaba,

$$\boxed{2 \times 0.32 = 0.64}$$

Waa maxay taranka $6 \times 0.25 = ?$

waxa aynu naqaan in :

$$0.25 = 25 \text{ boqleed} = \frac{25}{100}$$

Jajab tobanle

$$6 \times 25 \text{ boqleed} = 150 \text{ boqleed.}$$

Jajab

$$6 \times \frac{25}{100} = \frac{6 \times 25}{100} = \frac{150}{100}$$

Bal eeg isugeyntan :

$$0.25 + 0.25 + 0.25 + 0.25 + 0.25 + 0.25 = 1.5$$

Haddaba,

$$\boxed{6 \times 0.25 = 1.50}$$

Waa maxay taranka $10 \times 0.5 = ?$

waxa aynu naqaan in $0.5 = 5$ tobneed = $\frac{5}{10}$

Jajab tobanle

Jajab

$$10 \times 0.5$$

$$10 \times \frac{5}{10}$$

$$10 \times 5 \text{ tobneed} = 50 \text{ tobneed.} \quad 10 \times \frac{5}{10} = \frac{10 \times 5}{10} = \frac{50}{10}$$

Bal eeg isugeyntan :

$$0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 \\ + 0.5 + 0.5 + 0.5 + 0.5 = 5.0$$

Haddaba,

$$\boxed{10 \times 0.5 = 5.0}$$

Waa maxay taranka $12 \times 0.2 ?$

waxa aynu naqaan in $0.2 = 2$ tobneed = $\frac{2}{10}$

Jajab tobanle

Jajab

$$12 \times 0.2$$

$$12 \times \frac{2}{10}$$

$$12 \times 2 \text{ tobneed} = 24 \text{ tobneed.}$$

$$12 \times \frac{2}{10} = \frac{12 \times 2}{10} = \frac{24}{10}$$

Bal eeg isugeyntan :

$$0.2 + 0.2 + 0.2 + 0.2 + 0.2 + 0.2 \\ + 0.2 + 0.2 + 0.2 + 0.2 + 0.2 + 0.2 = 2.4$$

Bal astaanta kaladhigga isugeynta ee iskudhufashada ad-eegso :

$$12 \times 0.2 = (10 + 2) \times 0.2 = (10 \times 0.2) + (2 \times 0.2)$$

Waxa aynu garan karnaa in :

i) $10 \times 0.2 = 2.0$
ii) $2 \times 0.2 = 0.4$

Markaa,

$$(10 \times 0.2) + (2 \times 0.2) = 2.0 + 0.4 = 2.4$$

Haddaba,

$$\boxed{12 \times 0.2 = 2.4}$$

Waa maxay taranka 10×0.23 ?

$$\text{waxa aynu naqaan in } 0.23 = 23 \text{ boqleed} = \frac{23}{100}$$

Jajab tobanle

$$10 \times 0.23$$

Jajab

$$10 \times \frac{23}{100}$$

$$10 \times 23 \text{ boqleed} = 230 \text{ boqleed}$$

$$10 \times \frac{23}{10} = \frac{10 \times 23}{100}$$

$$= \frac{230}{100}$$

Bal eeg isugeynta :

$$0.23 + 0.23 + 0.23 + 0.23 + 0.23 \\ + 0.23 + 0.23 + 0.23 + 0.23 + 0.23 = 2.30$$

Haddaba,

$$\boxed{10 \times 0.23 = 2.30}$$

Waa maxay taranka 12×0.23 ?

waxa aynu naqaan in $0.23 = 23$ boqleed $= \frac{23}{100}$

Jajab tobanle

Jajab

$$12 \times 0.23 \\ 12 \times \frac{23}{100}$$

$$12 \times 23 \text{ boqleed} = 276 \text{ boqleed} \\ 12 \times \frac{23}{100} = \frac{12 \times 23}{100}$$

$$= \frac{276}{100}$$

Waxa aan adeegsan karnaa astaanta kaladhigga isugeynta ee iskudhufashada si aan u tusno in taranka 12 iyo 23 boqleed ay tahay 276 boqleed.

$$12 \times 0.23 = (10 + 2) \times 0.23 \\ = (10 \times 0.23) + (2 \times 0.23)$$

Waxa aan gaari karnaa :

- i) $10 \times 0.23 = 2.30$, waayo tusaalihi hore ayaan ku soo baranay.

ii) $2 \times 0.23 = 0.46$, waayo isugeeyn ahaan baynu ku tusi karnaa sidan oo kale $0.23 + 0.23 = 0.46$.

Marka,

$$\begin{aligned}12 \times 0.23 &= (10 \times 0.23) + (2 \times 0.23) \\&= 2.30 + 0.46 = 2.76\end{aligned}$$

Haddaba,

$$12 \times 0.23 = 2.76$$

Bal sidan kale eeg.

$$\begin{array}{r} 0.23 \\ \times 12 \\ \hline 230 \text{ maxay kuula eg tahay ?} \\ + 46 \text{ maxaa la sameeyey ?} \\ \hline 2.76 \end{array}$$

Waa maxay taranka 100×0.23 ?

$$\text{waxa aynu naqaan in } 0.23 = 23 \text{ boqleed} = \frac{23}{100}$$

Jajab tobanle

$$100 \times 0.23$$

$$100 \times 23 \text{ boqleed} = 2300 \text{ boqleed.}$$

Jajab

$$100 \times \frac{23}{100}$$

$$100 \times \frac{23}{100} = \frac{100 \times 23}{100}$$

$$\frac{2300}{100}$$

waxa aynu ognahay in $100 = 10 \times 10$.

Markaa, $100 \times 0.23 = (10 \times 10) \times 0.23$.

Astaanta hormogelinta iskudhufashada waxa ay ina gaarsiin kartaa in $(10 \times 10) \times 0.23 = 10 \times (10 \times 0.23)$.

Tusaalihi hore waxa aynu ku soo aragnay in :

$$(10 \times 0.23) = 2.30$$

Marka, $10 \times (10 \times 0.23) = 10 \times 2.30$.

Waxa iyana aynu og nahay in $2.30 = (2 + 0.30)$.

Marka, aynu adeegsanno astaanta kaladhigga isugeynta ee is-kudhufashada waxa aynu gaari karnaa in :

$$10 \times 2.30 = 10 (2 + 0.30) = (10 \times 2) + (10 \times 0.30)$$

Hadda waxa aynu garan karnaa in :

(i) $10 \times 2 = 20$

(ii) 10×30 boqleed = 300 boqleed = 3.00

Markaana, $(10 \times 2) + (10 \times 0.30) = 20 + 3.00 = 23.00$

Haddaba,

$$\boxed{100 \times 0.23 = 23.00}$$

Layli :

I) Raadi taranka tirooyinkan.

b) 5 tobneed $\times 2$

t) 4×3 tobneed

j) 3×12 boqleed

x) 6×8 boqleed

kh) 10×0.9

d) 0.18×6

r) 10×0.09

s) 11×0.8

sh) 11×0.08

dh) 10×0.7

c) 100×0.7

g) 15×0.9

II) ku qor summadda ka weyn, le'eg ama ka yar meesha laydigu ku sawiran yahay.

- b) $5 \times 0.2 \square 2 \times 0.5$
- t) $4 \times 0.3 \square 6 \times 0.2$
- j) $10 \times 0.23 \square 100 \times 0.2$
- x) $15 \times 0.3 \square 12 \times 0.3$

III) Raadi isirka maqan :

- | | |
|-----------------------------|-------------------------|
| b) $0.2 \times ? = 0.2$ | t) $? \times 3 = 0.9$ |
| j) $3 \times ? = 1.8$ | x) $? \times 0.6 = 6.0$ |
| kh) $0.23 \times ? = 23.00$ | d) $10 \times ? = 2.30$ |

IV) Taranka tirooyinku sax ma yahay.

b) $\begin{array}{r} 0.8 \\ \times 7 \\ \hline 5.6 \end{array}$	t) $\begin{array}{r} 0.27 \\ \times 3 \\ \hline 0.81 \end{array}$	j) $\begin{array}{r} 0.02 \\ \times 100 \\ \hline 2.00 \end{array}$
x) $\begin{array}{r} 13 \\ \times 0.3 \\ \hline 3.9 \end{array}$	kh) $\begin{array}{r} 100 \\ \times 0.1 \\ \hline 10.0 \end{array}$	d) $\begin{array}{r} 100 \\ \times 0.01 \\ \hline 10.0 \end{array}$

ISKUDHUFASHADA LABA JAJAB TOBANLE

Waa maxay taranka 0.2×0.3 ?

waxa aynu naqaan in $0.2 = \frac{2}{10}$ tobneed = $\frac{2}{10}$

$0.3 = \frac{3}{10}$ tobneed = $\frac{3}{10}$

Jajab tobantle

$$0.2 \times 0.3 = \frac{2}{10} \times \frac{3}{10} = \frac{6}{100}$$

2 tobneed \times 3 tobneed = 6 boqleed

Haddaba,

$$\boxed{0.2 \times 0.3 = 0.06}$$

Waa maxay taranka 0.3×0.3 ?

$$\text{waxa aynu naqaan in } 0.3 = 3 \text{ tobneed} = \frac{3}{10}$$

Jajab tobantle

$$0.3 \times 0.3 = \frac{3}{10} \times \frac{3}{10} = \frac{9}{100}$$

3 tobneed \times 3 tobneed = 9 boqleed

Haddaba,

$$\boxed{0.3 \times 0.3 = 0.09}$$

Waa maxay taranka 0.4×0.3 ?

$$\text{waxa aynu naqaan in } 0.4 = 4 \text{ tobneed} = \frac{4}{10}$$

$$0.3 = 3 \text{ tobneed} = \frac{3}{10}$$

Jajab tobanle

$$0.4 \times 0.3 = \frac{4}{10} \times \frac{3}{10} = \frac{12}{100}$$

4 tobneed \times 3 tobneed = 12 boqleed

Haddaba,

| $0.4 \times 0.3 = 0.12$ |

b) $0.2 \times ? = 0.2$

Waa maxay taranka 0.9×0.9 ?

waxa aynu naqaan in $0.9 = \frac{9}{10}$ tobneed = $\frac{9}{10} \times \frac{9}{10} = \frac{81}{100}$

Jajab tobanle

$$0.9 \times 0.9 = \frac{9}{10} \times \frac{9}{10} = \frac{81}{100}$$

9 tobneed \times 9 tobneed = 81 boqleed

Haddaba,

| $0.9 \times 0.9 = 0.81$ |

Waa maxay taranka 0.2×0.04 ?

waxa aynu naqaan in $0.2 = \frac{2}{10}$ tobneed = $\frac{2}{10} \times \frac{4}{10} = \frac{8}{100}$

$0.04 = \frac{4}{100}$ 0.04 = 4 boqleed = $\frac{4}{100}$

Jajab tobanle

$$0.2 \times 0.04 = \frac{2}{10} \times \frac{4}{100} = \frac{8}{1000}$$

2 tobneed \times 4 boqleed = 8 kumeed

Haddaba,

$$\boxed{0.2 \times 0.04 = 0.008}$$

Waa maxay taranka 0.5×0.02 ?

$$\text{waxa aynu naqaan in } 0.5 = \frac{5}{10} \text{ tobneed} = \frac{5}{10}$$

$$0.02 = \frac{2}{100} \text{ boqleed} = \frac{2}{100}$$

Jajab tobanle

$$0.5 \times 0.02 = \frac{5}{10} \times \frac{2}{100} = \frac{10}{1000}$$

5 tobneed \times 2 boqleed = 10 kumeed

Haddaba,

$$\boxed{0.5 \times 0.02 = 0.010}$$

Waa maxay taranka 0.36×0.8 ?

$$\text{waxay aynu naqaan in } 0.36 = \frac{36}{100} \text{ boqleed} = \frac{36}{100}$$

$$0.8 = 8 \text{ tobneed} = \frac{8}{10}$$

Jajab tobanle

$$0.36 \times 0.8 = \frac{36}{100} \times \frac{8}{10} = \frac{36 \times 8}{100 \times 10} = \frac{288}{1000}$$

36 boqleed \times 8 tobneed = 288 kumeed

Haddaba,

$$\boxed{0.36 \times 0.8 = 0.288}$$

Waa maxay taranka 0.02×0.04 ?

$$\text{waxa aynu naqaan in } 0.02 = 2 \text{ boqleed} = \frac{2}{100}$$

$$0.03 = 3 \text{ boqleed} = \frac{3}{100}$$

Jajab tobanle

$$0.02 \times 0.03 = \frac{2}{100} \times \frac{3}{100} = \frac{6}{10.000}$$

2 boqleed \times 3 boqleed = 6 toban-kumeed.

Haddaba,

$$\boxed{0.02 \times 0.03 = 0.0006}$$

Waa maxay taranka 0.06×0.08 ?

$$\text{waxa aynu naqaan in } 0.06 = 6 \text{ boqleed} = \frac{6}{100}$$

$$0.08 = 8 \text{ boqleed} = \frac{8}{100}$$

Jajab tobantle

$$0.06 \times 0.08 = \frac{6}{100} \times \frac{8}{100} = \frac{48}{10.000}$$

Jajab

$$6 \times 8 = 48$$

6 boqleed \times 8 boqleed = 48 tobant-kumeed.

Haddaba,

$$| 0.06 \times 0.08 = 0.0048 |$$

Waa maxay taranka 0.72×0.9 ?

$$\text{waxa aynu naqaan in } 0.72 = 72 \text{ boqleed} = \frac{72}{100}$$

$$0.09 = 9 \text{ boqleed} = \frac{9}{100}$$

72 boqleed \times 9 boqleed = 648 tobant-kumeed.

Haddaba,

$$| 0.72 \times 0.09 = 0.0648 |$$

Waa maxay taranka 0.99×0.99

$$\text{waxa aynu naqaan in } 0.99 = 99 \text{ boqleed} = \frac{99}{100}$$

Jajab tobanie

$$0.99 \times 0.99$$

Jajab

$$\begin{array}{r} 99 \times 99 = 9801 \\ \hline 100 \quad 100 \quad 10.000 \end{array}$$

$$99 \text{ boqleed} \times 99 \text{ boqleed} = 9801 \text{ tobani-kumeed.}$$

Haddaba,

$$\boxed{0.99 \times 0.99 = 0.9801}$$

Bal tabtan kale eeg :

$$\begin{array}{r} 0.99 \\ \times 0.99 \\ \hline 8910 \\ + 891 \\ \hline 0.9801 \end{array}$$

Waa maxay taranka 0.2×0.123 ?

$$\text{waxa aynu naqaan in } 0.2 = \frac{2}{10} \text{ tobneed} = \frac{2}{10}$$

$$0.123 = \frac{123}{1000} \text{ kumeed}$$

Jajab tobanie

$$0.2 \times 0.123$$

Jajab

$$\begin{array}{r} 2 \times 123 = 246 \\ \hline 10 \quad 1000 \quad 10.000 \end{array}$$

2 tobneed \times 123 kumeed = 246 toban-kumeed.

Haddaba,

$$| 0.2 \times 0.123 = 0.0246 |$$

Xususs :

(1)
$$\begin{array}{rcl} 1 \text{ tobneed} & \times & 1 \text{ tobneed} = 1 \text{ boqleed} \\ 0.1 & \times & 0.1 = 0.01 \end{array}$$

(2)
$$\begin{array}{rcl} 1 \text{ tobneed} & \times & 1 \text{ boqleed} = 1 \text{ kumeed} \\ 0.1 & \times & 0.01 = 0.001 \end{array}$$

(3)
$$\begin{array}{rcl} 1 \text{ boqleed} & \times & 1 \text{ boqleed} = 1 \text{ toban-kumeed} \\ 0.01 & \times & 0.01 = 0.0001 \end{array}$$

(4)
$$\begin{array}{rcl} 1 \text{ tobneed} & \times & 1 \text{ kumeed} = 1 \text{ toban-kumeed} \\ 0.1 & \times & 0.001 = 0.0001 \end{array}$$

Layli :

I Raadi taranka tirooyinka :

- | | |
|------------------------|-------------------------|
| b) 0.2×0.4 | t) 0.6×0.3 |
| j) 0.8×0.9 | x) 0.03×0.01 |
| kh) 0.12×0.4 | d) 0.25×0.03 |
| r) 0.02×0.88 | s) 0.65×0.12 |
| sh) 0.080×0.1 | dh) 0.3×0.102 |
| c) 0.76×0.69 | g) $0.125 \times 0.03?$ |

II Ku qor summadda ka weyn, le'eg iyo ka yar meesha laydigu ku sawiran yahay.

- b) 0.8×0.2 □ 0.08×0.2
t) 0.6×0.003 □ 0.06×0.03
j) 0.12×0.2 □ 0.06×0.01
x) 0.03×0.04 □ 0.03×0.004

III Raadi isirka maqan.

- b) $0.2 \times ? = 0.8$ t) $0.3 \times ? = 0.12$
j) $0.05 \times ? = 0.025$ x) $0.4 \times ? = 0.004$

IV Taranka tirooyinkani sax ma yahay ?

b) $\begin{array}{r} 0.16 \\ \times 0.02 \\ \hline 0.32 \end{array}$	t) $\begin{array}{r} 0.2 \\ \times 0.8 \\ \hline 1.6 \end{array}$	j) $\begin{array}{r} 0.15 \\ \times 0.2 \\ \hline 0.030 \end{array}$
x) $\begin{array}{r} 0.36 \\ \times 0.30 \\ \hline 0.1080 \end{array}$	kh) $\begin{array}{r} 0.001 \\ \times 0.001 \\ \hline 0.00001 \end{array}$	

Iskudhufasho Jajab tobanle iyo Jajab tobanle dhafan

Waa maxay taranka 0.2×1.2 ?

waxa aynu naqaan in $0.2 = 2$ tobneed = $\frac{2}{10}$

$1.2 = 12$ tobeend = $\frac{12}{10}$

Jajab tobanle

$$0.2 \times 12 = \frac{2}{10} \times \frac{12}{10} = \frac{24}{100}$$

2 tobneed \times 12 tobneed = 24 boqleed.

Haddaba,

$$\boxed{0.2 \times 1.2 = 0.24}$$

Tab kale: adeegasho astaanta kaladhigga isugeynta ee is-kudhufashda

$$0.2 \times 1.2 = 0.2 \times (1 + 0.2) \\ = (0.2 \times 1) + (0.2 \times 0.2)$$

$$0.2 \times 1 = 0.2$$

$$0.2 \times 0.2 = 0.04$$

$$\text{Markaa, } 0.2 \times 1.2 = 0.2 + 0.04 \\ = 0.24$$

Waa maxay taranka 0.6×2.2 ?

$$\text{waxa aynu naqaan in } 0.6 = 6 \text{ tobneed} = \frac{6}{10}$$

$$2.2 = 22 \text{ tobneed} = \frac{22}{10}$$

Jajab tobanle

$$0.6 \times 2.2 = \frac{6}{10} \times \frac{22}{10} = \frac{132}{100}$$

Jajab

$$6 \times 22 = 132$$

$$6 \text{ tobneed} \times 22 \text{ tobneed} = 132 \text{ boqleed}$$

Haddaba,

$$\boxed{0.6 \times 2.2 = 1.32}$$

Tab kale: adeegashada astaanta kaladhigga isugeynta ee iskudhufashada

$$\begin{aligned}0.6 \times 2.2 &= 0.6 \times (2 + 0.2) \\&= (0.6 \times 2) + (0.6 \times 0.2)\end{aligned}$$

$$0.6 \times 2 = 1.2$$

$$0.6 \times 0.2 = 0.12$$

$$\text{Markaa, } 0.6 \times 2.2 = 1.2 + 0.12 = 1.20 + 0.12$$

$$\boxed{0.6 \times 2.2 = 1.32}$$

Waa maxay taranka 0.3×3.05 ?

$$\text{waxa aynu naqaan in } 0.3 = \frac{3}{10} \text{ tobneed}$$

$$3.05 = 305 \text{ boqleed} = \frac{305}{100}$$

Jajab tobanle

$$\begin{array}{rcl}0.3 \times 305 & = & \begin{array}{r}3 \times 305 = 915 \\ \hline 10 \quad 100 \quad 1000\end{array}\end{array}$$

Jajab

$$3 \text{ tobneed} \times 305 \text{ boqleed} = 915 \text{ kumeed.}$$

Haddaba,

$$\boxed{0.3 \times 3.05 = 0.915}$$

Tab kale: adeegashada astaanta kaladhigga.

$$\begin{aligned}0.3 \times 3.05 &= 0.3 \times (3 + 0.05) \\&= (0.3 \times 3) + (0.3 \times 0.05)\end{aligned}$$

$$0.3 \times 3 = 0.9$$

$$0.3 \times 0.05 = 0.015$$

$$\text{Markaa, } 0.3 \times 3.05 = 0.9 + 0.015 = 0.900 + 0.015$$

$$\boxed{0.3 \times 3.05 = 0.915}$$

Waa maxay taranka 2.6×0.06 ?

$$\text{waxa aynu naqaan in } 2.6 = 26 \text{ tobneed} = \frac{26}{10}$$

$$0.06 = 6 \text{ boqleed} = \frac{6}{100}$$

Jajab tobanle

$$2.6 \times 0.06 = \frac{26}{10} \times \frac{6}{100} = \frac{156}{1.000}$$

26 tobneed $\times 6$ boqleed = 156 kumeed.

Haddaba,

$$\boxed{2.6 \times 0.06 = 0.156}$$

Tab kale: adeegashada astaanta kaladhigga.

$$\begin{aligned}2.6 \times 0.06 &= (2 + 0.6) \times 0.06 \\&= (2 + 0.6) + (0.6 \times 0.06)\end{aligned}$$

$$2 \times 0.06 = 0.12$$

$$0.6 \times 0.06 = 0.036$$

$$\text{Markaa, } 2.6 \times 0.06 = 0.12 + 0.036 = 0.120 + 0.036$$

$$| 2.6 \times 0.06 = 0.156 |$$

Tab kale: adeegashada astaanta kaladhigga.

$$2.6 \times 0.06 = (2 + 0.6) \times 0.06$$

$$= (2 + 0.6) + (0.6 \times 0.06)$$

$$2 \times 0.06 = 0.12$$

$$0.6 \times 0.06 = 0.036$$

$$\text{Markaa, } 2.6 \times 0.06 = 0.12 + 0.036 = 0.120 + 0.036$$

$$| 2.6 \times 0.06 = 0.156 |$$

Waa maxay taranka 0.08×2.16 ?

$$\text{waxa aynu naqaan in } 0.08 = 8 \text{ boqleed} = \frac{8}{100}$$

$$\frac{0.08}{0.001} = \frac{8}{100} \quad 2.16 = 216 \text{ boqleed} = \frac{216}{100}$$

Jajab tobanle

$$0.08 \times 2.16$$

Jajab

$$8 \times 216 = 1728$$

$$\frac{8}{100} \times \frac{216}{100} = \frac{1728}{10000}$$

Haddaba,

$$| 0.08 \times 216 = 0.1728 |$$

Tab kale: adeegashada astaanta kaladhigga.

$$0.08 \times 2.16 = 0.08 \times (2 + 0.16) =$$

$$= (0.08 \times 2) + (0.08 \times 0.16)$$

$$0.08 \times 2 = 0.16$$

$$0.08 \times 0.16 = 0.0128$$

$$\text{Markaa, } 0.08 \times 2.16 = 0.16 + 0.0128 = 0.1600 + 0.0128$$

$$\boxed{0.08 \times 2.16 = 0.1728}$$

Waa maxay taranka 0.12×3.25 ?

$$\text{waxa aynu naqaan in } 0.12 = 12 \text{ boqleed} = \frac{12}{100}$$

$$3.25 = 325 \text{ boqleed} = \frac{100}{325}$$

Jajab tobanle

$$0.12 \times 3.25 = \frac{12}{100} \times \frac{325}{100} = \frac{3900}{10.000}$$

12 boqleed \times 325 boqleed = 3900 toban-kumeed.

Haddaba,

$$\boxed{0.12 \times 3.25 = 0.3900}$$

Tab kale: adeegashada astaanta kaladhigga:

$$0.12 \times 3.25 = 0.12 \times (3 + 0.25)$$

$$= (0.12 \times 3) + (0.12 \times 0.25)$$

$$0.12 \times 3 = 0.36$$

$$0.12 \times 0.25 = 0.0300$$

$$\text{Markaa, } 0.12 \times 3.25 = 0.36 + 0.0300 = 0.3600 + 0.0300$$

$$0.12 \times 3.25 = 0.3900$$

Bal tabtan soo socota ka warran ? Waa helin fududeeyya tabta adeegashada astaanta kaladhigga.

$$0.12 \times 3.25 = 3.25 \times 0.12 \text{ waayo ?}$$

$$\begin{array}{r}
 0.12 \\
 \times 3.25 \\
 \hline
 3600 \\
 + 240 \\
 \hline
 60 \\
 \hline
 0.3900
 \end{array}
 \qquad
 \begin{array}{r}
 3.25 \\
 \times 0.12 \\
 \hline
 3250 \\
 + 650 \\
 \hline
 0.3900
 \end{array}$$

Layli :

I) Raadi taranka tirooyinkan.

- | | | | |
|-----|--------------------|-----|--------------------|
| b) | 0.2×3.6 | t) | 0.6×6.0 |
| j) | 0.8×4.8 | x) | 0.8×2.35 |
| kh) | 3.09×0.9 | d) | 0.07×1.20 |
| r) | 0.09×3.63 | s) | 0.25×2.25 |
| sh) | 0.01×1.01 | dh) | 0.1×10.01 |

II) Ku qor summada ka weyn, le'eg ama ka yar meesha laydigu ku sawiran yahay.

- | | |
|----|-------------------------------------|
| b) | $0.1 \times 3.6 \square 0.036$ |
| t) | $2.4 \square 0.1 \times 24.0$ |
| j) | $1.8 \times 0.3 \square 56$ boqleed |
| x) | $0.2 \times 3.06 \square 61.2$ |

- kh) $40 \text{ boqleed} \square 0.1 \times 4.0$
 d) $0.02 \times 2.00 \square 4 \text{ boqleed}$
 r) $0.23 \times 1.0 \square 0.23 \square 0.23$
 s) $1.0 \times 0.23 \square 0.023$
 sh) $1.0 \times 0.23 \square 0.230$
 dh) $1.2 \square 1.20 \times 0.1$

III) Raadi isirka maqan ee taramadan :

$$\begin{array}{ll}
 \text{b)} \quad 3.6 \times ? = 0.72 & \text{t)} \quad 0.1 \times ? = 0.40 \\
 \text{j)} \quad 0.2 \times ? = 0.612 & \text{x)} \quad 0.3 \times ? = 0.99
 \end{array}$$

IV) Taranka tirooyinkani kuwee baa sax ah.

$ \begin{array}{r} 0.2 \\ \times 3.9 \\ \hline 60 \\ 18 \\ \hline 0.78 \end{array} $	$ \begin{array}{r} 0.12 \\ \times 1.9 \\ \hline 120 \\ 108 \\ \hline 2.28 \end{array} $	$ \begin{array}{r} 4.48 \\ \times 0.36 \\ \hline 13440 \\ 2708 \\ \hline 1.7148 \end{array} $
$ \begin{array}{r} 18.02 \\ \times 0.90 \\ \hline 16.2180 \end{array} $	$ \begin{array}{r} 56.3 \\ \times 0.06 \\ \hline 0.3378 \end{array} $	

Isku dhufashada jajab tobanyaal dhafan

Waa maxay taranka 1.5×15 ?

$$\text{waxa aynu naqaan in } 1.5 = 15 \text{ tobneed} = \frac{15}{10}$$

Jajab tobanle

$$1.5 \times 1.5 = \frac{15 \times 15}{100} = \frac{225}{100}$$

15 tobneed \times 15 tobneed = 225 boqleed.

Haddaba,

$$1.5 \times 1.5 = 2.25$$

Hilin gaaban:

$$\begin{array}{r} 1.5 \\ \times 1.5 \\ \hline 150 \\ + 75 \\ \hline 2.25 \end{array}$$

Waa maxay taranka 2.35×2.0 ?

waxa aynu naqaan in $2.35 = 235$ boqleed = $\frac{235}{100}$

Jajab tobanle

$$2.35 \times 2.0 =$$

Jajab

$$235 \times 20 = \frac{4700}{1000}$$

$$2.0 = \frac{20}{10}$$

235 boqleed \times 20 tobneed = 4700 kumeed.

Haddaba,

$$| 2.35 \times 2.0 = 4.700 |$$

Hilin gaaban:

$$\begin{array}{r} 2.35 \\ \times 20 \\ \hline 4700 \end{array}$$

Waa maxay taranka 6.67×3.7

waxa aynu naqaan in $6.67 = 667$ boqleed = $\frac{667}{100}$

$$3.7 = 37 \text{ tobneed} = \frac{37}{10}$$

Jajab tobanle

Jajab

$$667 \times 37 = 24679$$

$$6.67 \times 3.7$$

$$= \frac{100}{10} \frac{10}{1000}$$

$667 \text{ boqleed} \times 37 \text{ tobneed} = 24679 \text{ kumeed.}$

Haddaba,

$$| 6.67 \times 3.7 = 24.679 |$$

Hilin gaaban :

$$\begin{array}{r} 6.67 \\ \times 3.7 \\ \hline 20010 \\ 4660 \\ \hline 24679 \end{array}$$

Waa maxay taranka 7.68×4.28 ?

waxa aynu naqaan in $7.68 = 768$ boqleed = $\frac{768}{100}$

$4.28 = 428$ boqleed = $\frac{428}{100}$

Jajab tobanle

$$7.68 \times 4.28$$

=

Jajab

$$\begin{array}{r} 768 \times 428 = 328604 \\ \hline 100 \quad 100 \quad 10.000 \end{array}$$

768 boqleed $\times 428$ boqleed = 328.604 toban-kumeed.

Haddaba,

$$|7.68 \times 4.28 = 32.8604|$$

Hilin gaaban :

$$\begin{array}{r} 7.68 \\ \times 4.28 \\ \hline 307200 \\ 15360 \\ + \quad 6144 \\ \hline 32.8604 \end{array}$$

Layli :

I) Raadi taranka tirooyinkan :

b) 1.3×2.6

t) 7.8×2.8

j) 4.9×10.6

x) 4.5×1.26

kh) 12.1×1.28

d) 100×6.36

r) 6.12×1.12

s) 6.03×6.23

r) 6.12×1.12

s) 6.03×6.23

sh) 16.24×1.30

dh) 20.32×1.321

II) Ku qor summadda ka weyn, le'eg, ama ka yar mee-sha laydigu ku sawiran yahay.

b) $3.087 \square 3.807$ t) $1.2 \times 1.2 \square 1.44$

j) $3.6 \times 1.8 \square 64.8$ x) $4.5 \times 9.4 \square 0.4230$

III) Ku qor barta jajab tobantle meesha sax ah, ee taranka :

b) 6.73 t) 8.62 j) 73.46

$\times 1.6$ $\times 1.32$ $\times 1.32$

— — — — — — — — — — — — — — —

6730 86200 734600

4038 25860 220380

— — — — — — — — — — — — — — —

10768 + 1724 + 14692

— — — — — — — — — — — — — — —

113784 969672

— — — — — — — — — — — — — — —

x) 1.264 kh) 7.5308

$\times 3.7$ $\times 4.62$

— — — — — — — — — —

37920 30123200

8848 4524480

— — — — — — — — — —

46768 + 150616

— — — — — — — — — —

34798296

IV) Raadi isirka maqan :

- | | |
|------------------------------|----------------------------|
| b) $1.2 \times ? = 1.44$ | t) $1.1 \times ? = 1.32$ |
| j) $4.21 \times ? = 5052$ | x) $1.20 \times ? = 1.440$ |
| kh) $1.20 \times ? = 1.4400$ | d) $1.3 \times ? = 1.82$ |

ISUQAYBINTA JAJAB TOBANLE

Jajab tobanle loo qaybinayo tiro idil.

Weedh tiro :

$$2 \times ? = 0.6$$

Weyddiinta weedhu waxa ay tahay, waa maxay tirada tobanle ee lagu dhuftay 2 marka taranku yahay 6 tobneed?. Jawaabtu waxay tahay 3 tobneed.

Weedha tiradu waxa ay noqon :

$$2 \times 0.3 = 0.6$$

Weyddiintii hore mid u dhigantaa waxa ay tahay waa maxay qaybtu marka 6 tobneed loo qaybiyo laba? Jawaabtu waa tii hore waana saddex tobneed. Weedha tirada ee weyddiintu waxa ay noqon :

$$0.6 \div 2 = ?$$

Weedha oo laga shaqeeyayna waa $0.6 \div 2 = 0.3$. Weedhan waxa lagu magacaaba weedh isuqaybin ah. Hannaan kale oo loo qoraa waxa uu yahay sidan :

$$\begin{array}{r} 0.3 \\ 2 \overline{) 0.6} \end{array}$$

6 tobneed waa la qaybshaha, 2 du waa qaybshaha, 3 tobneed-duna waa qaybta.

Weedh tiro : $1.4 \div 2 = ?$

$$1.4 \div 2 = \frac{1.4}{2} = \frac{1.0 + 0.4}{2}$$

$$1.4 \div 2 = \frac{10 + 0.4}{2} = \frac{10 \text{ tobneed} + 4 \text{ tobneed}}{2}$$

$$1.4 \div 2 = \frac{10 \text{ tobeend}}{2} + \frac{4 \text{ tobneed}}{2}$$

$$1.4 \div 2 = 5 \text{ tobneed} + 2 \text{ tobneed}$$

$$1.4 \div 2 = 0.5 + 0.2 = 0.7$$

Haddaba $1.4 \div 2 = 0.7$

$$\begin{array}{r} 0.7 \\ \text{ama } 2 \overline{) 1.4} \end{array}$$

Weedh tiro : $0.14 \div 2 = ?$

$$0.14 \div 2 = \frac{0.14}{2} = \frac{0.10 + 0.04}{2}$$

$$0.14 \div 2 = \frac{0.10 + 0.04}{2} = \frac{10 \text{ boqleed} + 4 \text{ boqleed}}{2}$$

$$0.14 \div 2 = \frac{10 \text{ boqleed}}{2} + \frac{4 \text{ boqleed}}{2}$$

$$0.14 \div 2 = 5 \text{ boqleed} + 2 \text{ boqleed}$$

$$0.14 \div 2 = 0.05 + 0.02 = 0.07$$

Haddaba,

$0.14 \div 2 = 0.07$
0.07
ama $2 \overline{) 0.14}$

Waa maxay qaybta $6.4 \div 2$?

$$6.4 \div 2 = \frac{6.4}{2} = \frac{6 + 0.4}{2}$$

$$\frac{6 + 0.4}{2} = \frac{6 \text{ koowaad} + 4 \text{ tobneed}}{2}$$

$$6.4 \div 2 = 3 \text{ koowaad} + 2 \text{ tobneed}$$
$$= 3 + 0.2 = 3.2$$

Haddaba, $6.4 \div 2 = 3.2$ ama $2 \overline{)6.4}$

Waa maxay qaybta $2.56 \div 8$

$$2.56 \div 8 = \frac{2.56}{8} = \frac{2 + 0.5 + 0.06}{8}$$

$$\frac{2 + 0.5 + 0.06}{8} = \frac{2 \text{ koowaad} + 5 \text{ tobneed} + 6 \text{ boqleed}}{8}$$

$$\frac{2 \text{ koowaad} + 5 \text{ tobneed} + 6 \text{ boqleed}}{8}$$

$$= \frac{2 \text{ koowaad}}{8} + \frac{5 \text{ tobneed}}{8} + \frac{6 \text{ boqleed}}{8}$$

$$\frac{2 \text{ koowaad}}{8} = \frac{20 \text{ tobneed}}{8}$$

$$\frac{2 \text{ koowaad}}{8} + \frac{5 \text{ tobneed}}{8} = \frac{20 \text{ tobneed}}{8} + \frac{5 \text{ tobneed}}{8}$$

25 tobneed

= -----

8

(2 koowaad + 5 tobneed) + 6 boqleed

= ----- =

8

8

8

25 tobneed + 6 boqleed

= -----

8

8

25 tobneed 24 tobneed + 1 tobneed

Laakiin = ----- = ----- = -----

8

8

8

25 tobneed + 6 boqleed

= ----- =

8

8

24 tobneed + (10 boqleed + 6 boqleed)

= ----- =

8

8

8

24 tobneed + 16 boqleed

= -----

8

8

= 3 tobneed + 2 boqleed

$6.25 \div 8 = 0.3 + 0.02 = 0.30 + 0.02 = 0.32$

Haddaba,

$6.25 \div 8 = 0.32$

Bal hilinkan ah «hab qaybta dheer» u fiirso.

$$\begin{array}{r} 0.32 \\ \hline 8 | 2.56 \\ 24 \\ \hline 16 \\ 16 \\ \hline 00 \end{array}$$

Waa maxay qaybta $4.5 \div 10$?

$$4.5 = \frac{4.5}{10} = \frac{4 + 0.5}{10}$$

$$= \frac{4 \text{ koowaad} + 5 \text{ tobneed}}{10}$$

haddiise

$$4 \text{ koowaad} = 40 \text{ .tobneed}$$

$$5 \text{ tobneed} = 50 \text{ boqleed}$$

$$\text{markaa} = \frac{4 \text{ koowaad} + 5 \text{ tobneed}}{10}$$

$$= \frac{40 \text{ tobneed} + 50 \text{ boqleed}}{10}$$

$$= \frac{40 \text{ tobeend} + 50 \text{ boqleed}}{10}$$

$$4 \text{ tobneed} + 5 \text{ boqleed}$$

$$4.5 \div 10 = 0.4 + 0.05 = 0.40 + 0.05$$

Haddaba,

$$\boxed{4.5 \div 10 = 0.45}$$

Habka qaybta dheer :

$$\begin{array}{r} 0.45 \\ 10 \overline{)4.5} \\ \underline{-} \\ 50 \\ 50 \\ \underline{-} \\ 00 \end{array}$$

**ISUQAYBINTA LABA TIRO OO IDIL OO QAYBTU
TAHAY JAJAB TOBANLE**

Weedho tiro :

$$2 \div 5 = ?$$

$$2 \div 5 = \frac{2}{5}.$$

Laba koowaad looma qaybin karo shan qaybood oo isle'eg oo koowaaddo ah. Wuxuu loo baahan yahay in 2 koowaad loo kooxeeyo 20 tobneed taasoo shan meelood oo isle'eg loo qaybin karo:

$$\frac{2}{5} = \frac{20 \text{ tobneed}}{5} = \frac{4 \text{ tobneed}}{—}$$

$$\frac{2}{5} = \frac{2.0}{5} = 0.4.$$

$$\text{Haddaba, } 2 \div 5 = 0.4$$

Xusuuus :

$$1 \text{ kocwaad} = 10 \text{ tobneed} = 100 \text{ boqleed} = 1.000 \text{ kumeed}$$

$$1 = 1.0 = 1.00 = 1.000$$

$\frac{2}{5}$ waa astirada jajab ee tirada labashaneed.

0.4 waa astirada jajab tobanle ee afar-tobneed.

$$\frac{2}{5} = \frac{4}{10} \text{ (laba jajab oo isu dhigma).}$$

Markaa, $\frac{2}{5}$, 0.4 waa laba astiro oo tiro qodh ah u taagan.

Weedh tiro :

$$1 \div 2 = ?$$

$1 \div 2$ waxa ay la mid tahay $\frac{1}{2}$. Hal koowaad looma qay-bin karo laba meelood oo isle'eg oo koowaad ah.

1 koowaad = 10 tobneed

$$\text{Markaa } \frac{1}{2} = \frac{1 \text{ koowaad}}{2} = \frac{10 \text{ tobneed}}{2} \\ = 5 \text{ tobneed}$$

$$\frac{1}{2} = \frac{1.0}{2} = 0.5$$

Haddaba,

$$\boxed{1 \div 2 = \frac{1}{2} = 0.5}$$

Waa maxay qaybta $3 \div 4$?

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

Saddex-koowaad looma qaybin karo afar meelood oo isle'eg oo koowaad ah. Saddex-koowaad waa soddon-tobneed. Soddon-tobneed looma qaybin karo afar meelood oo isle'eg oo

tobneed ah. Soddon waa saddex boqol-boqleed, afar meelood oo isle'egna waa loo qaybin karaa.

$$\begin{array}{r} 3 \text{ koowaad} & 30 \text{ tobneed} & 300 \text{ boqleed} \\ \hline 4 & 4 & 4 \end{array}$$

$$\begin{array}{r} 300 \text{ boqleed} \\ \hline 4 \end{array} = 75 \text{ boqleed}$$

$$\begin{array}{r} 3 & 3.0 & 3.00 \\ \hline 4 & 4 & 4 \end{array} = 0.75$$

Haddaba,

$$\boxed{\begin{array}{r} 3 \\ \hline 4 \end{array} = 0.75.}$$

Waa maxay qaybta $1 \div 8 = ?$

1 \div 8 waxa ay la mid tahay $\frac{1}{8}$. Hal koowaad looma qay-

bin karo 8 meelood oo isle'eg oo koowaad ah. Hal koowaad waa 10 tobneed. Toban-tobneed looma qaybin karo 8 meelood oo isle'eg oo tobneeddo ah. 10 tobneed waa 100 boqleed. Boqol-boqleed looma qaybin karo 8 meelood oo isle'eg oo boqleeddo ah. 100 boqleed waa 1000 kumeed. Kun-kumeed waa loo qaybin karaa 8 meelood oo isle'eg oo kumeeddo ah, qaybtuna waa 125 kumeed.

$$\begin{array}{r} 1 \text{ koowaad} & 10 \text{ tobneed} & 100 \text{ boqleed} \\ \hline 8 & 8 & 8 \end{array}$$

$$\begin{array}{r}
 \text{booleem} \text{ kumeed} \quad 1000 \text{ kumeed} \quad 125 \text{ kumeed} \\
 = \frac{1000}{8} = \frac{125}{8} \\
 \text{Markas.} \quad \rightarrow 0.4 \text{ waa laba} \quad 8 \quad 8 \\
 \text{baalpod} \quad 001 \quad \text{baalpod} \quad 01 \quad \text{baalpod} \quad 8 \\
 \hline
 \text{Waadhaa:} \quad \frac{1}{8} = \frac{1.0}{8} = \frac{1.00}{8} = \frac{1.000}{8} = 0.125
 \end{array}$$

Haddaba,

$$1 \div 8 = \underline{\underline{0.125}}$$

bin karoo laba meelood oo 1000 kumeed ab.

Habka «Qaybta Dheer» bal u fiirso :

0.125

8 | 10

8

—

20

16

—

40

40

—

00

$$\begin{array}{r}
 1 \quad 1.0 \\
 \hline
 2 \quad 2
 \end{array}
 = \frac{1.0}{2} = 0.5$$

Haddaba, amool baswood laar

Waa maxay qaybta $1 \div 3$?

Seddex-kooryaad looma qaybin karo after meelood oo isle'g oo koowad ab. Seddex-kooweed was soddon-tobneed. Soddon-tobneed looma qaybin karo after meelood oo isle'g oo obbaalpod oo qabashid oo ge'shi oo booleem 8 kumeed midyep oo new bseem

1 koowaad, 10 tobneed, 100 boqleed, 1000 kumeed iyo iwm.

looma qaybin karo 3 meelood oo isle'g.

Seddex-kooryaad looma qaybin karo after meelood oo isle'g oo koowad ab. Seddex-kooweed was soddon-tobneed. Soddon-tobneed looma qaybin karo after meelood oo isle'g oo

Bal habka «Qaybta Dheer» day.

$$\begin{array}{r} 0.3333 \\ \hline 3 | 10 \\ 9 \\ \hline 1 \end{array}$$

Si aynu u hello astirada jajab tobanle ee hal-saddexeed ama qaybta hal iyo saddex waxa aynu ku «SEEBI» tobneedka boqleedka ama kumeedka ugu dhaw. Badanaaba waxa lagu seebaa boqleedka ugu dhaw.

Haddaba,

$\frac{1}{3} = 0.3$ tobneedka ugu dhaw.

3

$\frac{1}{3} = 0.33$ boqleedka ugu dhaw.

3

$\frac{1}{3} = 0.333$ kumeedka ugu dhaw.

3

Waa maxay qaybta $1 \div 6$?

$1 \div 6$ waxa ay la mid tahay $\frac{1}{6}$. Hal koowaad looma qay-

bin karo 6 meelood oo isle'eg oo koowaad ah. Marka sareeyaha dib loogu magacaabo tobneed, boqleed ama kumeed looma qaybin karo 6 meelood oo isle'eg.

Bal dheeho habka «Qaybta Dheer»

$$\begin{array}{r}
 0.1666 \\
 \hline
 6 | 10 \\
 6 \\
 \hline
 40 \\
 36 \\
 \hline
 40 \\
 36 \\
 \hline
 40 \\
 36 \\
 \hline
 4
 \end{array}$$

Haddii aynu ku seebno tobneedka, boqleedka ama kumeedka ugu dhaw astirada jajab tobantle ee hal-lixeed waxa ay tahay :

$$\frac{1}{6} = 0.2, \text{ tobneedka ugu dhaw.}$$

$$\frac{1}{6} = 0.17, \text{ boqleedka ugu dhaw.}$$

$$\frac{1}{6} = 0.167, \text{ kumeedka ugu dhaw.}$$

Waa maxay qaybta $8 \div 9$?

$8 \div 9$ waxa ay la mid tahay $\frac{8}{9}$. Koowaad aan ahayn tiraa

da 9 looma qaybin karo 9 meelood oo isle'eg oo koowaad ah.
Marka sareeyaha jajabka dib loogu magacaabó tobneed, boqleed
ama kumeed looma qaybin karo 9 meelood oo isle'eg.

Bal dheeho habka «Qaybta Dheer».

0.888

$$\begin{array}{r} 9 | 80 \\ - \\ 72 \\ - \\ 80 \\ - \\ 72 \\ - \\ 8 \end{array}$$

Haddii aynu ku seebno tobneedka, boqleedka ama kumeedka ugu dhaw, astirada jajab tobanle ee siddeed-sagaaleed waxa ay tahay :

8

$\frac{8}{9} = 0.9$, tobneedka ugu dhaw.

9

8

$\frac{8}{9} = 0.89$, boqleedka ugu dhaw.

9

8

$\frac{8}{9} = 0.889$, kumeedka ugu dhaw.

9

X u s u u s :

- 1) Jajabada hooseeyayaashoodu yihiin 2 ama 5, sareeyayaasha waxa dib loogu magacaabaa tobneeddo.
- 2) Jajabka hooseeyihisu yahay 4, sareeyaha waxa dib loogu magacaabaa boqleed.
- 3) Jajabka hooseeyihisu yahay 8, waxa sareeyaha dib loogu magacaabaa kumeed.
- 4) Jajabyada leh hooseeyaha 2, 4, 8, ama 5, astiradooda jajab tobanle waxa la yiraq tobanle dhammaada.
- 5) Jajabyada leh hooseeyayaasha 3, 6, 7 oo aan ahayn
 — astiradooda jajab tobanle waxa la yiraq jajab to-
 6
 banle noqnoqda ama dhammaanin.
- 6) Marka tiro rug lagu seebaayo waxa la eegaa godka rugtaa bidix ka xiga. Haddii ay tirada godkaasi ay shan ka yar tahay waa layska tuuraa oo tirada rugtaa bidix ka xiga. Haddii ay tirada godkaasi da godkaasi ay shan le'eg tahay ama ka weyn tahay, hal ayaa lagu biiriyyaa tirada taala rugta la rabo. Sida, booleedda u dhaw ee $0.761 = 0.76$, $0.765 = 0.77$.

L a y l i :

- 1) Dhig barta jajab tobanle meesha sax ah ee qaybta.

b)	$2 \overline{) 0.10}$ 10 — 00	$t) \quad 3 \overline{) 0.36}$ 3 — 06 6 — 0
j)	$100 \overline{) 0.362}$	$x) \quad 5 \overline{) 0.905}$

$$013$$

$$\text{kh)} \quad 7 \overline{)0.91}$$

$$00303$$

$$\text{d)} \quad 10 \overline{)0.303}$$

2) Isu qaybi tirooyinkan :

- | | | | |
|-----|------------------|----|------------------|
| b) | $0.280 \div 2$ | t) | $0.936 \div 3$ |
| j) | $0.50 \div 5$ | x) | $0.176 \div 8$ |
| kh) | $0.243 \div 9$ | d) | $0.56 \div 4$ |
| r) | $0.4128 \div 14$ | s) | $0.3913 \div 13$ |

3) Ku qor summadda ka weyn, le'eg ama ka yar mee-sha laydigu ku sawiran yahay.

$$\text{b)} \quad \frac{0.10 + 0.08}{2} \quad \square \quad \frac{0.100 + 0.008}{2}$$

t) $0.36 \div 9 \quad \square \quad 0.4 \div 4$

j) $0.040 \div 4 \quad \square \quad 0.4 \div 4$

x) $\frac{1}{2} \times 0.88 \quad \square \quad 0.88 \div 2$

kh) $\frac{0.90 + 0.08}{2} \quad \square \quad 0.07 \times 0.07$

Layli :

1) Sarreeyaha jajabada dib ugu magacaw tobneed, boq-leed iyo kumeed.

b) $\frac{1}{9}$ t) $\frac{2}{7}$ j) $\frac{3}{5}$ x) $\frac{5}{6}$

$$\begin{array}{r} 3 \\ \hline kh) 8 \end{array}$$

$$\begin{array}{r} 3 \\ \hline d) 6 \end{array}$$

$$\begin{array}{r} 4 \\ \hline r) 5 \end{array}$$

$$\begin{array}{r} 2 \\ \hline s) 3 \end{array}$$

2) Waa maxay astirada jajab tobanle ee jajabyadan.

$$\begin{array}{r} 1 \\ \hline b) 4 \end{array} \quad \begin{array}{r} 3 \\ \hline t) 8 \end{array} \quad \begin{array}{r} 3 \\ \hline j) 6 \end{array} \quad \begin{array}{r} 2 \\ \hline x) 5 \end{array}$$

$$\begin{array}{r} 6 \\ \hline kh) 8 \end{array} \quad \begin{array}{r} 2 \\ \hline d) 16 \end{array} \quad \begin{array}{r} 2 \\ \hline r) 6 \end{array} \quad \begin{array}{r} 1 \\ \hline s) 7 \end{array}$$

3) Waa maxay qaybta tirooyinkani :

$$\begin{array}{r} b) 1 \div 4 \quad t) 3 \div 8 \quad j) 3 \div 6 \quad x) 2 \div 5 \\ kh) 6 \div 8 \quad d) 2 \div 16 \quad r) 2 \div 6 \quad s) 1 \div 7 \end{array}$$

4) Maxaa u dhaxeeya weyddiinta labaad iyo ta sadde-xaad.

5) Isu qaybti tirooyinkan. Jawaabta ku seeb boqle-edka ugu dhaw.

$$\begin{array}{r} 18 \\ \hline b) 24 \end{array} \quad \begin{array}{r} 3 \\ \hline t) 9 \end{array} \quad \begin{array}{r} 16 \\ \hline j) 24 \end{array} \quad \begin{array}{r} 9 \\ \hline x) 24 \end{array}$$

$$\begin{array}{r} 75 \\ kh) 4 \div 28 \quad d) 18 \div 27 \quad r) 6 \div 30 \quad s) \text{---} \\ 375 \\ sh) 25 \div 50 \quad dh) 3 \div 7 \quad c) 24 \div 108. \end{array}$$

TIRO IDIL OO LOO QAYBIYO JA JAB TOBANLE

Waa maxay qaybta $6 \div 0.3$

Weyddiintu waxa ay la mid tahay, immisa 3 tobneed ayaa ku jira 6. Bal aynu adeegsanno kalagoynta si aynu jawaabta

u helno. Jawaabtu waxa ay la mid tahay inta goor ee aynu 6 ka goyno 0.3. Waxa aynu naqaan in $6 = 6.0$

$$\begin{array}{r} 6.0 \\ - 0.3 \\ \hline 5.7 \\ - 0.3 \\ \hline 5.4 \end{array}$$

Sidaa u wad. Jawaabtu waa immisa ?

Jawaabtu waa 20. Bal eeg $20 \times 0.3 = 6.0$

$$\text{waxa iyana aynu naqaan in } 6 \div 0.3 = \frac{6}{0.3}$$

$$\text{Haddaba } 1 = \frac{10}{10}$$

Xusus :

Haddii tiro, lagu dhufto kow tarantu waa tradii.

$$\frac{6}{0.3} \times 1 = \frac{6}{0.3} \times \frac{10}{10} = \frac{60}{3}$$

Waynu naqaanna sida laba tiro oo idil laysugu qaybiyo.

$$\text{Markaa } \frac{60}{3} = 20$$

$$\frac{6}{2.1} = 2.1 \div 6$$

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Eeg habka qaybta dheer :

$$\begin{array}{r} 20 \\ 3 \overline{) 60} \\ 60 \\ \hline 00 \end{array}$$

X u s u u s :

Hilinkan waxa la yiraa habka sansaan qaadka qaybshaha oo ah marka hooseeyaha tiro idil laga dhigo.

tobneed \times 10 = koowaad.

waa maxay qaybta $6 \div 1.5$?

HILINKA KALAGOYNTA

$$\begin{array}{r} 6.0 \\ - 1.5 \quad \quad 1 \\ \hline 4.5 \\ - 1.5 \quad \quad 1 \\ \hline 3.0 \\ - 1.5 \quad \quad 1 \\ \hline 1.5 \\ - 1.5 \quad \quad 1 \\ \hline 00 \\ \hline \end{array} \quad \left. \quad \right\} 4 \text{ goor}$$

Jawaabtu waa 4. Bal eeg $4 \times 1.5 = 6$.

Hilinka sansaan qaadka.

$$6 \div 1.5 = \frac{6}{1.5}$$

$$\frac{6}{1.5} \times 1 = \frac{6}{1.5} \times \frac{10}{10} = \frac{60}{15}$$

Haddaba $6 \div 1.5 = \frac{6}{1.5} = 4$

Waa maxay qaybta $2 \div 0.3$?

Hilinka sansaan qaadka

$$2 = 0.3 = \frac{2}{0.3}$$

$$\frac{0.3}{2} \times 1 = \frac{0.3}{2} \times \frac{10}{10} = \frac{3}{20}$$

$$\begin{array}{r} 6 \\ 3 | \overline{20} \\ \underline{18} \\ 2 \end{array}$$

Hilinka kalagoynta :

$$\begin{array}{r}
 2.0 \\
 - 0.3 \quad \quad \quad 1 \\
 \hline
 1.7 \\
 - 0.3 \quad \quad \quad 1 \\
 \hline
 1.4 \\
 - 0.3 \quad \quad \quad 1 \\
 \hline
 1.1 \\
 - 0.3 \quad \quad \quad 1 \\
 \hline
 0.8 \\
 - 0.3 \quad \quad \quad 1 \\
 \hline
 0.5 \\
 - 0.3 \quad \quad \quad 1 \\
 \hline
 0.2
 \end{array} \left. \right\} 6 \text{ goor iyo } 2 \text{ haraaya}$$

Jawaabta waxa aynu ku seebi karaa boqleed.

$$\begin{array}{r}
 6.666 \\
 3 \overline{) 20} \\
 18 \\
 \hline
 20 \\
 18 \\
 \hline
 20 \\
 18 \\
 \hline
 20 \\
 13 \\
 \hline
 2
 \end{array}$$

Haddaba $2 \div 0.3 = \frac{2}{0.3} = 6.67$ boqleedka ugu dhaw.

Waa maxay qaybta $5 \div 0.25$?

$$\frac{5}{0.25} \times 1 = \frac{5 \times 100}{0.25 \times 100} = \frac{500}{25}$$

$$= 20$$

$$25 \overline{)500}$$

$$\begin{array}{r} 20 \\ -50 \\ \hline 000 \end{array}$$

Ku qar xilmaan ba wixii leegaa tumkaa yar maa
sha laydigii wixii yahay = $1 \times \frac{81}{81} = 0.0$

Haddaba

$$5 \div 0.25 = 20$$

Xusus :

boqleed $\times 100$ = koowaad

Waa maxay qaybta $144 \div 0.12$?

Hilinka sansaan qaadka :

$$144 \div 0.12 = \frac{144}{0.12}$$

$$\frac{144}{0.12} \times 1 = \frac{144}{0.12} \times \frac{100}{100} = \frac{14400}{12}$$

$$\frac{14400}{12} = 1200$$

Haddaba

$$| 144 \div 0.12 = 1200 |$$

Waa maxay qaybta $1.8 \div 0.06$

Hilinka sansaan qaadka :

$$\frac{18}{0.06} \times 1 = \frac{18}{0.06} \times \frac{100}{100} = \frac{1800}{6}$$

$$\frac{1800}{6} = 300$$

Haddaba

$$| 18 \div 0.06 = 300 |$$

Layli :

1) Ka dhig hooseeyayaasha jajabyadan tiro idil.

- | | | | | | |
|----|------------------|-----|------------------|----|--------------------|
| b) | $\frac{18}{0.3}$ | t) | $\frac{3}{0.27}$ | j) | $\frac{24}{0.002}$ |
| x) | $\frac{30}{0.1}$ | kh) | $\frac{30}{0.1}$ | d) | $\frac{30}{0.001}$ |

2) Isu qaybi tirooyinkan (Jawaabtana boqleedka ugu dhaw ku seeb)

- b) $24 \div 0.3$
j) $24 \div 0.03$
kh) $41 \div 0.5$
r) $1 \div 0.7$
sh) $36 \div 0.18$
c) $3913 \div 0.13$

- t) $241 \div 0.3$
x) $18 \div 0.4$
d) $261 \div 0.09$
s) $5 \div 0.6$
dh) $72 \div 0.12$

3) Ku qor summadda ka weyn, le'eg ama ka yar mee-sha laydigu ku sawiran yahay :

- b) $1 \div 0.5 \square 2$
j) $1 \div 0.7 \square 1.42$
t) $2 \div 0.3 \square 6$
x) $35 \div 0.8 \square 43.75$

JAJAB TOBANLE LOO QAYBIYEEY JAJAB TOBANLE

Waa maxay qaybta $0.6 \div 0.4$?

$\frac{0.6}{0.2}$ waxa ay la mid tahay $\frac{0.6}{0.2}$. Weyddiintu waxa ay

la mid tahay, maxaa lagu dhuftaa 0.2 si ay tarantu u noqoto 6 tobneed. Weedha tirada weyddiintu w a x a a y t a h a y $0.2 \times ? = 0.6$ jawaabtu waa 3.

Sidii casharkii hore hooseeyaha ka dhig tiro idil dabadeedna labada tiro isu qaybi.

$$\frac{0.6}{0.2} \times 1 = \frac{0.6 \times 10}{0.2 \times 10} = \frac{6}{2} = 3$$

Haddaba

$$| 0.6 \div 0.2 = 3 |$$

Waa maxay qaybta $0.6 \div 0.12$?

$0.6 \div 0.12$ waxa ay la mid tahay $\frac{0.6}{0.12}$. Hooseeyaha tirro idil ka dhig dabadeedna labada tiro isu qaybi.

$$\frac{0.6}{0.12} \times 1 = \frac{0.6}{0.12} \times \frac{100}{100} = \frac{0.6 \times 100}{0.12 \times 100} = \frac{60}{12} = 5$$

Haddaba

$$| 0.6 \div 0.12 = 5 |$$

X u s u u s :

tobneed $\times 10$ waxa la helaa tiro idil

boqleed $\times 100$ waxa la helaa tiro idil

kumeed $\times 1000$ waxa la helaa tiro idil

Waa maxay qaybta $0.18 \div 0.6$? Hooseeyaha ka dhig tiro idil.

$0.18 \div 0.6$ waxa ay la mid tahay :

$$\frac{0.18}{0.06} \times 1 = \frac{0.18}{0.06} \times \frac{100}{100} = \frac{0.18 \times 100}{0.06 \times 100} = \frac{18}{6} = 3$$

Haddaba

$$| 0.18 \div 0.06 = 3 |$$

Waa maxay qaybta $0.125 \div 0.5$?

0.125 waxa ay la mid tahay $\frac{0.125}{0.5}$. Hooseeyaha ka dhig tiro idil.

$$\frac{0.125}{0.5} \times 1 = \frac{0.125}{0.5} \times \frac{10}{10} = \frac{0.125 \times 10}{0.5 \times 10} = \frac{1.25}{5}$$

Waynu soo barannay sida jajab tobane loogu qaybiyo tiro idil.
Bal aynu adeegsano qaybta dheer si aynu u hello jawaabta.

$$\begin{array}{r} 0.25 \\ \hline 5 | 1.25 \\ \underline{10} \\ \hline 25 \\ \underline{25} \\ \hline 00 \end{array}$$

Haddaba

$$| 0.125 \div 0.5 = 0.25 |$$

Waa maxay qaybta $1.54 \div 0.07$?

$$1.54 \div 0.07 \text{ waxa ay la mid tahay } \frac{1.54}{0.07} \text{ Hooseeyaha}$$

ka dhig tiro idil. Hooseeyuhu waa qaybshaha.

$$\frac{1.54}{0.07} \times 1 = \frac{1.54}{0.07} \times \frac{100}{100} = \frac{1.54 \times 100}{0.07 \times 100} = \frac{154}{7}$$

$$\begin{array}{r} 22 \\ \hline 7 | 154 \\ \underline{14} \\ \hline 14 \\ \underline{14} \\ \hline 00 \end{array}$$

Haddaba

$$1.54 \div 0.07 = 22$$

Waa maxay qaybta $24.56 \div 0.8$?

$24.56 \div 0.8$ waxa ay la mid tahay $\frac{24.56}{0.8}$. Hooseeya-ha ka dhig tiro idil.

$$\frac{24.56}{0.8} \times 1 = \frac{24.56}{0.8} \times \frac{10}{10} = \frac{245.6}{8}$$

$$\begin{array}{r} 30.7 \\ 8 \overline{) 245.6} \\ 24 \\ \hline 056 \\ 56 \\ \hline 00 \end{array}$$

$$\text{Haddaba } \frac{245.6}{8} = 30.7$$

Waa maxay qaybta $1.421 \div 0.03$?

$1.421 \div 0.03$ waxa ay la mid tahay $\frac{1.421}{0.03}$. Hooseeya-ha ka dhig tiro idil.

$$\frac{1.421}{0.03} \times 1 = \frac{1.421}{0.03} \times \frac{100}{100} = \frac{142.1}{3}$$

47.36

3 | 142.10

12

22

21

11

9

20

18

2

Qaybtu waa jajab tobanelle aan dhammaanin.

Ku seeb rugta boqleed ee ugu dhaw.

Haddaba

$$| 1.421 \div 0.03 = 47.37 |$$

X u s u u s :

- 1) Haddii uu hooseeyuhu yahay tobneed ku dhufo toban hooseeyaha iyo sareeyaha jajabka. Ama barta jajab tobanelle ee qaybshaha iyo la qaybshaha hal god midig u rar.
- 2) Haddii uu hooseeyuhu boqleed yahay ku dhufo hooseeyaha iyo sareeyaha boqol. Ama barta jajab tobanelle ee qaybshaha iyo la qaybshaha laba god midig u rar.
- 3) Guud ahaan si hooseeyaha (qaybshaha) tiro idil looga dhigo, barta jajab tobanelle u rar xagga midig si ay ugu baaleyso tirada dabadeedna in le'eg rar ta la-qaybshaha.

Layli :

- 1) Qaybshah ka dhig tiro idil.

b) $1.3 \div 0.3$ t) $1.54 \div 0.12$

j) $8.6 \div 0.8$ x) $0.872 \div 0.007$.

2) Dhig barta jajab tobantle meesha saxa ah ee qaybta. Calaamaddan (*) ku tilmaan meesha cusub ee barta jajab tobantle qaybshaha iyo la qaybshaha laga dhi-gay.

$$\begin{array}{r} \text{Matalan } 0.9 \div 1.5 \quad 1.5 * \end{array}$$

$$\begin{array}{r}
 & 20 & & 64 \\
 & \underline{-} & & \underline{-} \\
 b) \quad 1.3 \overline{) 26.0} & t) \quad 0.24 \overline{) 0.1536} \\
 & 260 & & 144 \\
 & \underline{-} & & \underline{-} \\
 & 000 & & 0096 \\
 & & & 96 \\
 & & & \underline{-} \\
 & & & 00
 \end{array}$$

$$\begin{array}{r}
 & 6 & & 17 \\
 j) & 2.75 \overline{) 1.650} & x) & 0.420 \overline{) 7.140} \\
 & 1650 & & 420 \\
 \hline & - & & - \\
 & 0000 & & 2940 \\
 & - & & 2940 \\
 & - & & - \\
 & 0000 & & 0000
 \end{array}$$

$$\begin{array}{r}
 & & 87 \\
 \text{kh)} & 3.6 & \overline{)31.32} \\
 & 288 \\
 \hline
 & 252 \\
 & 252 \\
 \hline
 & 000
 \end{array}$$

I s u q a y b i :

- | | | | |
|-----|---------------------|-----|---------------------|
| b) | $0.24 \div 0.6$ | t) | $8.70 \div 5.8$ |
| j) | $0.612 \div 0.18$ | x) | $2.035 \div 0.37$ |
| kh) | $33.04 \div 2.36$ | d) | $0.01245 \div 0.83$ |
| r) | $52.64 \div 37.6$ | s) | $45.39 \div 0.3$ |
| sh) | $2.508 \div 7.6$ | dh) | $2.34 \div 0.45$ |
| c) | $0.084 \div 0.04$ | g) | $0.1848 \div 0.264$ |
| f) | $12.025 \div 0.925$ | q) | $0.13944 \div 3.32$ |
| k) | $0.848 \div 21.2$ | l) | $3.6472 \div 0.376$ |
| m) | $32.108 \div 0.92$ | n) | $1136.8 \div 5.6$ |
| w) | $1.189 \div 0.41$ | | |

BOQOLKIIBA



Boqolkiiba waa jaab hooseeyihiisu yahay boqol. Had iyo jeer erayga boqolkiiba ma qorno ee summadda «%» yaynu isticmaallaa. Boqolkiiba kow ama 1% waxay u dhigantaa hal boqleed. Sidaas darteed 15% waxa loo akhriyaa «boqolkiiba tobani iyo shan macnaheeduna wuxu yahay «100kii qayboodba 15 qaybood». Sidaas oo kale, 20% waxa loo akhriyaa «boqolkiiba labaatan», macnaheeduna wuxu «100kii qayboodba 20 qaybood».

Tusaale :

$$20\% = \frac{20}{100} = \frac{2}{10} = \frac{1}{5}$$

Iskaashato beeralay ah ayaa galley fara badan u baxday. Si dhaqso ay ugu goostaan ayay gargaar gacmeed u baahdeen. Ciddii caawisa lacag may siinayn laakiin inta beerta ay ka gooyaan ayay 15% qaadanayeen. Hal beri guulwadayaal la sha-

qeeyay waxay gooyeen 100 jawaan. Immisa ayay yeeshen ? Maalin labaad haday 150 jawaan ay gooyeen immisa ayay heleen ?

— 100 jawaan waxay yeeshen 15 jawaan.

$$150 = 100 + 50 = 15 + 7 \frac{1}{2} = 22 \frac{1}{2}$$

Layli :

- 1) Guulwadayaashii hadday gooyeen 200 oo jawaan, immisa ayay yeeshen ?
- 2) Haddii ayay gooyeen 250 jawaan, Immisa ayay qaateen ?
- 3) » » » 300 oo » » » » »
- 4) » » » 400 oo » » » » »
- 5) » » » 500 oo » » » » »
- 6) Haddii looga dhigay in ay qaataan 20% immise ayay ka helayaan markay gooyaan.

b) 200

t) 250

j) 350

x) 450

kh) 550.

Isudhignaanta boqolkiiba iyo jajab tobanle

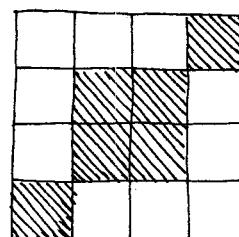
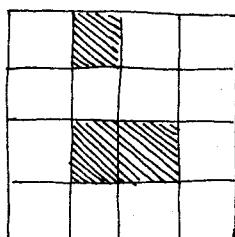
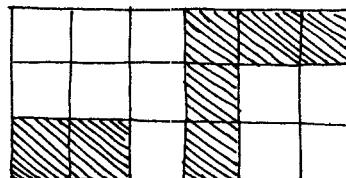
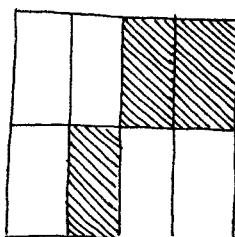
Haddii aynu rabno in 0.12 oo jajab tobanle ah aynu u beddelo boqolkiiba waa in barta jajab tobanle laba rugood xagga midigta aynu u durkinnaa, summadda boqolkiibana raacinaa sida $0.12 = 12\%$, $0.6 = 60\%$ ama $0.125 = 12.5\%$.

Haddii boqolkiiba loo beddelaayo jajab tobanle waa in aynu tuurnaa summadda boqolkiiba barta jajab tobanlana laba rugood xagga bidixda loo durkiyaa sida :

$$14\% = 0.14 \text{ ama } 27\% = 0.27 \text{ ama } 64\% = 0.64 \text{ ama } 20\% \\ = 0.20 \text{ ama } 9\% = 0.09 \text{ ama } 2.5\% = 0.025 \text{ iwm.}$$

Layli :

- 1) Jajab tobantleyasha hoos ku qoran u beddel boqol-kiiba :
b) 0.80 kh) 0.23 s) 0.9
t) 0.7 d) 0.24 sh) 0.167
j) 0.035 r) 8.2 dh) 5.46
x) 3.59
- 2) Layliyada hoose mid walba jajab tobantle u beddel :
b) 1% x) 36% r) 54%
t) 67% kh) 8.1% s) 12.9%
j) 75.4% d) 8.24% sh) 0.93%
- 3) Jaantusyada hoose inta haraysan marna boqolkiiba marna jajab tobantle ku qor.



II. Isudhignaanta boqolkiiba iyo jajab.

Si jajab loogu beddelo boqolkiiba waa in marka hore jajabka loo rogaa jajab tobanle. Markaasna waa in barta jajab tobanle laba rugood xagga midigta loo durkiyaa lana raaciya summaddii boqolkiiba.

Tusaalooyin :

1 3 7

Jajabyada —, — iyo — u beddel boqolkiiba.

2 4 8

Furfuris :

$$\text{b)} \quad \begin{array}{r} 1 \\ - = 2 \end{array} \mid \begin{array}{r} 0.5 \\ 1.0 \end{array} = 50\%$$

$$\begin{array}{r} 2 \\ - \\ \hline 0 \end{array}$$

$$\text{t)} \quad \begin{array}{r} 3 \\ - = 4 \end{array} \mid \begin{array}{r} 0.75 \\ 3.0 \end{array} = 75\%$$

$$\begin{array}{r} 4 \\ - \\ \hline 20 \\ 20 \\ - \\ 0 \end{array}$$

$$\text{j)} \quad \begin{array}{r} 7 \\ - = 8 \end{array} \mid \begin{array}{r} 0.875 \\ 7.0 \end{array} = 87.5\%$$

$$\begin{array}{r} 8 \\ - \\ \hline 60 \\ 56 \\ - \\ 40 \\ 40 \\ - \\ 00 \end{array}$$

Haddii boqolkiiba loo beddelaayo jajab marka hore waa in la tuuraa summadda boqolkiiba. Dabeedna tirada ka dhig jajab hooseeyihisu yahay 100. Markaas isku jarjar wixii isu googoi kara.

fusaalooyin :

$$b) 40\% = \frac{40}{100} = \frac{4}{10} = \frac{2}{5}$$

$$t) 65\% = \frac{65}{100} = \frac{13}{20}$$

$$j) 62.5\% = \frac{62.5}{100} = \frac{625}{1000} = \frac{125}{200} = \frac{25}{40} = \frac{5}{8}$$

Layli :

- 1) U beddel jajabyada hoos ku yaal boqolkiiba :

$$b) \frac{1}{4} \quad kh) \frac{3}{5} \quad s) \frac{3}{8}$$

$$t) \frac{5}{7} \quad d) \frac{7}{9} \quad sh) \frac{9}{12}$$

$$j) \frac{1}{10} \quad r) \frac{7}{16} \quad dh) \frac{4}{15}$$

$$x) \frac{2}{3}$$

- 2) Bobolkiibada hoose u beddel jajab

$$\begin{array}{llll} b) 8\% & t) 12\% & j) 20\% & x) 34\% \\ kh) 90\% & d) 1.6\% & r) 7.4\% & s) 33.3\% \end{array}$$

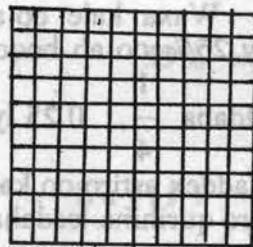
$$sh) \frac{1}{2} \quad dh) \frac{2}{3}$$

3) Jaantusyada hoose, haree inta ku hoos qoran :

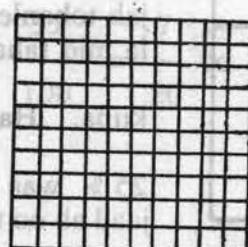
(b)

(t)

(j)



Haree 26%



Haree 73%



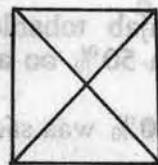
Hadee 54%

(k)

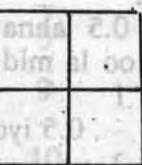
(kh)

(d)

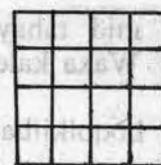
(r)



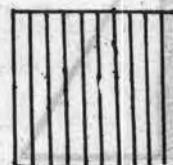
Haree 25%



Haree 50%



Haree 75%



Haree 60%



Haree $\frac{1}{3}$



Haree $\frac{6}{8}$



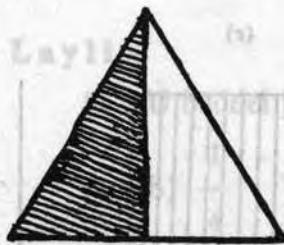
Haree $\frac{8}{9}$

III. Boqolkiiba iyo labada jajab :



Qaybta aynu haraynay lay-
 $\frac{1}{4}$
 ligan waa $\frac{1}{4}$ oo ah jajab. Wa-
 $\frac{4}{4}$
 xay la mid tahay 0.25 oo ah ja-
 jab tobanle. Waxa kale oo ay
 la mid tahay 25% oo ah boqol-
 $\frac{1}{4}$
 kiiba. Haddaba $\frac{1}{4}$, 0.25 iyo
 $\frac{4}{4}$
 25% waa saddex astiro oo kala
 jaad ah oo tiro qurihina leedahay

(b)



Qaybta aynu haraynay saddex gees-
 $\frac{1}{2}$
 kan waa $\frac{1}{2}$ oo ah jajab. Waxay la
 $\frac{2}{2}$
 inid tahay 0.5 ahna jajab tobanle.
 Waxa kale oo la mid ah 50% oo ah
 $\frac{1}{2}$
 boqolkiiba. $\frac{1}{2}$, 0.5 iyo 50% waa sad-
 $\frac{2}{2}$
 dex astiro oo tiro qura u taagan.

(t)



Qaybta aynu haraynay goobadan waa
 $\frac{3}{4}$
 oo ah jajab. Waxay la mid ta-
 $\frac{4}{4}$
 hay 0.75 oo ah jajab tobanle. Waxa
 kale oo la mid ah 75% oo ah boqol-
 kiiba.

- 5) 8% 6) 12% 7) 20% 8) 34%
 9) 50% 10) 68% 11) 74% 12) 83.3%

Tusaale :

Raadi jajabyada u dhigma 35% ?

Furfuris :

$35\% = 0.35$ oo ah jajab tobanle.

$$35\% = \frac{35}{100} = \frac{7}{20} \text{ oo ah jajab.}$$

Layli :

Jajabyada hoos ku yaal u beddel jajab tobanle iyo boqolkiiba ::

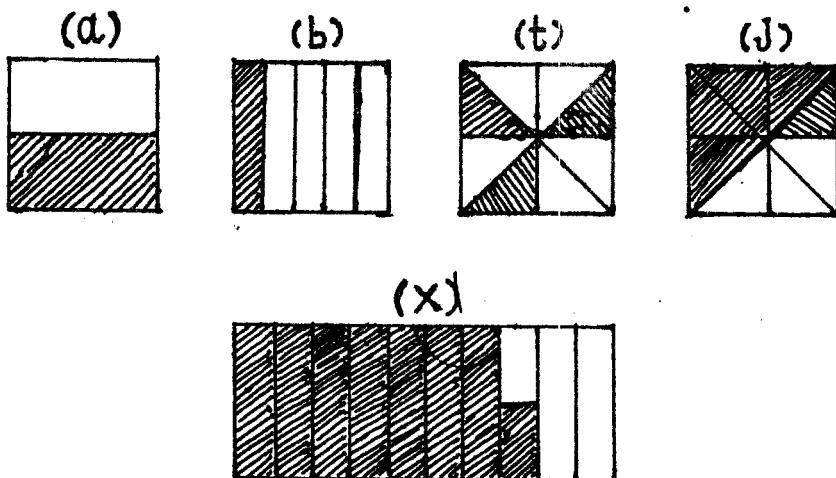
	Jajab	Jajab tobanle	Boqolkiiba
b)	2	-----	-----
	5	-----	-----
t)	9	-----	-----
	10	-----	-----
j)	5	-----	-----
	12	-----	-----
x)	7	-----	-----
	20	-----	-----
kh)	4	-----	-----
	25	-----	-----
d)	3	-----	-----
	25	-----	-----

	37		
r)	—	Boqolkaan	— da jajab : — 1.0 1.0 1.0 1.0 T
	50		— ee angidb u abaydaist ibaad
	48		— ee angidb u abaydaist ibaad
s)	—		ligan waa — 1.0 1.0 1.0 1.0 W.
	100		— 1.0 1.0 1.0 1.0
	76		— 1.0 1.0 1.0 1.0
sh)	—		— 1.0 1.0 1.0 1.0
	100		— 1.0 1.0 1.0 1.0
	2		— 1.0 1.0 1.0 1.0
dh)	—		— 1.0 1.0 1.0 1.0
	3		— 1.0 1.0 1.0 1.0

2) Buuxi meelaha maran : *easy uul soor abaydaist
:: adii xilop*

	Jajab	Jajab tobanle	Boqolkiiba
b)	5	—	—
	6	—	—
t)	—	0.63	—
j)	—	—	56 %
			2
x)	—	—	16 %
			3
kh)	—	0.625	—
d)	—	0.14	—
r)	13	—	—
	20	—	—
s)	—	—	0.75 oo ah j. 60 %
sh)	11	—	—
	15	—	—

- 3) Jaantusyada hoose mid walba inta haraysan ku hoos qor tiro. Adeegso astirooyinka jajab, jajab tobanel iyo boqolkiiba.



- 4) Jajabyada hoos ku yaal u rog boqolkiiba :

$$\begin{array}{r} 2 \\ b) \frac{—}{9} \end{array} \quad \begin{array}{r} 3 \\ t) \frac{—}{5} \end{array} \quad \begin{array}{r} 7 \\ j) \frac{—}{10} \end{array} \quad \begin{array}{r} 13 \\ x) \frac{—}{25} \end{array} \quad \begin{array}{r} 47 \\ kh) \frac{—}{50} \end{array}$$

- 5) Jajab tobanelyaasha hoos ku yaal u rog boqolkiiba:
b) 0.3 t) 0.24 j) 0.15 x) 0.982 kh) 0.06
- 6) Sansaanka hoose ee boqolkiiba u rog jajab :
b) 17% t) 8% j) 26% x) 3% kh) 90%
- 7) Layliga 6aad u rog jajab tobanel.

IV. Soosaaridda boqolley tiro marka boqolkiiga lagu siiyo :

Si loo soo saaro boqolley marka boqolkiiba iyo tirada ay ka tahay lagu siiyo waa in:

- 1) Boqolkiibada lagu siiyo aad u rogtaa jajab ama jajab tobanel.

- 2) Markaa dabadeed waa inaad soo saarfax taranka jajabka ama jajab tobantle iyo tiradii lagu siiyay.

Tusaale 1 :

Haddii 4% arday ay ka maqan yihiin arday 300 ah oo dugsi dhigata, raadi inta arday ee ka maqan dugsigaa?

Furfuris :

$$4\% = \frac{4}{100} \text{ ama } 0.04 \text{ markaad u rogtu jajab ama ja-}$$

jab tobantle. Taranka jajabka iyo tirada lagu siiyey :

$$\frac{4}{100} \times 300 = 4 \times 3 = 12 \text{ Arday}$$

ama taranka jajab tobantlaho iyo tirada lagu siiyey :

$$0.04 \times 300 = 12.00 = 12 \text{ arday}$$

∴ Tirada ardayda maqani waa 12 arday.

Tusaale 2 :

Iskaashato kaboolay ah ayaa 72 kabood sameysay. Haddii laga gatay 75% immisa kabood ayey iibiyeen?

Furfuris :

$$75\% = \frac{75}{100} \text{ jajab ahaan ama } 75\% = 0.75 \text{ jajab to-}$$

banle. Tirada kabaha ay iibiyeen :

$$\frac{75}{100} \times 72 = \frac{75 \times 72}{100} = 3 \times 18 = 54 \text{ kabood}$$

∴ 54 kabood ayey iibiyeen.

Tusaale 3 :

Raadi 24% intay ka tahay 50 ?

Furfuris :

$$24\% \text{ ka } 50 = t \quad \text{ama} \quad 24\% \text{ ka } 50 = t$$

$$\frac{24}{100} \times 50 = t \quad \Rightarrow \quad 0.24 \times 50 = t$$

$$\frac{24 \times 50}{100} = t \quad \Rightarrow \quad 12.00 = t$$

$$12 = t \quad \Rightarrow \quad 12 = t$$

Layli :

1. Tirooyinka hoos ku yaal raadi t.
- b) $15\% \text{ ka } 400 = t$ d) $40\% \text{ ka } 15 = t$
- i) $25\% \text{ ka } 120 = t$ r) $8\% \text{ ka } 60 = t$
- j) $35\% \text{ ka } 10 = t$ s) $45\% \text{ ka } 90 = t$
- x) $50\% \text{ ka } 36 = t$ sh) $55\% \text{ ka } 140 = t$
- kh) $\frac{1}{31} \text{ ka } 75 = t$ dh) $\frac{1}{83} \text{ ka } 52 = t$
2. 50 eray oo Cawaale lagu imtixaanay wuxuu gartay 64% . Immisa eray buu gartay ?
3. Rooble wuxuu iibsaday 20 shilin oo buug ah. Haddii 30% lacagtii uu bixiyey, lacag ahaan immisa ayuu bixiyay?
4. Imtixaan 35 su'aalood ah, Faarax 60% ayuu saxay. Immisa su'aalood ayuu saxay? Immisa su'aalood ayuu garan waayey?
5. Dugsigeennu 15 jeer ayuu kubadda cagta ciyaaray. Haddii 80% uu badiyay, immisa jeer ayuu badiyay? Meeqa jeer baa laga badiyay ?

6. Muus qiimahiisu noqday 25 shilin buu Xirsi ka goo yay beertiisa. Hadduu walaalkiis uu siiyay 40% lacagtuu ka helay muuskaas, soo saar lacagta Xirsi walaalkii siiyay?
7. Degmada Qardho 95% ayaa wax ka bartay OHRM. Tirada Dadka ee degmadu waa 10,000. Immisa qof ayaa wax ka bartay OHRM?
8. Surwaal qiimahiisu ahaa 80 shilin ayaa 25% qiimahiisi la dhimay. Raadi lacagta surwaalkaas laga rriday?
9. Xaafadda 26ka Juun ee Hargeysa waxay leedahay 200 oo guulwade. Haddii 85% ay iska-wax-u-qabso ka shaqeyeen, immisa guulwade ayaa maalin-taa ka shaqeyay xaafadda?
10. Horseed 12 ciyaarood oo ay ciyaartay 66% ay badisay. Soo saar inta ciyaarood ay badisay Horseed?

V. Soosaaridda boqolkiiba marka boqolleyda iyo tirada saldhigga ahba la og yahay.

Haddii 40 su'aalood oo yeeris ah Xasan 38 uu sax keenay, boqolkiiba intuu saxay?

Si loo helo boqolkiiba 38 inta ay ka tahay 40 waa in labada tiro jajab ahaan la isu garab dhigaa ayadoo sarreeyaha laga digayo tirada boqolkiiba la doonayo. Markaasna jajab-ka loo rogaa boqolkiiba. Taas oo ah sarreeyaha ayaa loo qay-bin hooseeyaha,, dabadeedna jajab tobantaha la helo baa lagu qori astirada boqolkiiba ee u dhiganta.

Sidaas awgeed, haddii Xasan 40kiiba uu saxay 38 eray

38
wuxuu jajabkeedu noqonaya,
40 Si loo helo boqolkiibada

38

— waa in aynu isugu qaybinaa sida hoos ku taal oo kale:
40

$$\begin{array}{r}
 & \underline{0.95} \\
 38 = 40 | \begin{array}{r} 38.0 \\ - 36 \\ \hline 2.0 \\ - 2.0 \\ \hline 0 \end{array} & = 0.95 \times 100 \\
 & = 95\%
 \end{array}$$

\therefore Boqolkiiba Xasan wuxuu saxay 95.

Waxa kale oo loo shaqeeyn karaa sidan :

$38 = t\%$ intay ka tahay 40.

$$\text{Taasu waxay tahay } \frac{38}{40} = t\% \text{ oo ah } \frac{38}{40} = \frac{t}{100}.$$

$$\text{Taasu waxay la mid tahay } 0.95 = \frac{t}{100}$$

sidaas darteed, $t = 0.95 \times 100$

$$\therefore t = 95\%$$

$t =$ Boqolkiiba inta uu saxay Xasan = 95%.

Layli :

1. 50 eray oo yeeris ah ayuu Barre 26 sax keenay. Soo saar boqolkii erayba inta uu saxi lahaa ?
2. Guulwade ayaa shaqeestay 6 shilin. Haddii hal shilin u dhigtay, raadi boqolkiiba inta uu dhigan karo.
3. Fasal 30 arday ku jirto ayey 12 yihiin hablo. Soo saar boqolkiiba inta hablo noqonaysa?
4. Ciyaartoyaga dugsigeenna ayaa 20kii jeer ay ciyaareen 18 jeer badiyay. Raadi boqolkiiba inta ay badiyee?

5. Waa immisa boqolleyda Caashi ay keentay haddii 25 eray oo yeeris ah ay ka saxday 20 ?
 6. 30 buug oo Raage loo iibiyay ayaa 6 ka luntay. Soo saar boqolkiiba inta buug ka luntay?
 7. Xuseen 10 jeer buu ku riday markii uu tuuray 25 jeer kubbadda koleyga. Boqolkiiba immisa ayuu kolleyga ku riday?
 8. Guulwade waardiye ka ah dugsi ayaa qabtay hal tuug. Haddii 4 tuug ay ahaayeen, boqolkiiba immisa ayuu qaban lahaa?
 9. Soo saar t tirooyinka hoos ku yaal
 - b) $36 = t\% \text{ ka } 45$
 - t) $27 = t\% \text{ ka } 20$
 - j) $42 = t\% \text{ ka } 80$
 - x) $72 = t\% \text{ ka } 90$
 - kh) $26 = t\% \text{ ka } 35$
 10. Maxamed 30kii shilin oo uu shaqeestaba 18 shilin buu cunna. Haddii uu inta kale baankiga dhigto, boqolkiiba meeqa ayuu dhigtaa ?
- VI. Soosaaridda tirada saldhig marka boqolleyda iyo boqolkiiba la og yahay.**

Haddii aynu doonaynno tirada saldhigga ah marka 16% tiradaas ay tahay 32, waxaynu yeeleeynnaa sidan hoos ku qoran :

16% waxay ka tahay tiro 32

Aynu ka soo qaadanno tirada aynu rabno t, markaas waxay noqonaysaa : $16\% \text{ ka } t = 32$. Taasu waxay tahay $0.16 \text{ ka } t = 32$. Marka aad fiiriso $0.16 \text{ ka } t = 32$ waxaad garan kartaa in tarorka labada isir oo kala ah 0.16 iyo

t ay yihiiin 32. Haddii labada isir mid ahaan uu yahay 0.16 markaas kan kale waxaa lagu helayaa isuqaybin sida hoos ku shaqeysan ah.

$$0.16 \times t = 32$$

$$\begin{array}{r} & & 200 \\ & & \hline t = 32 \div 0.16 = 32 \text{ taas oo ah } 16 & | \quad 3200 \\ & & \quad 32 \\ & & \hline & & 000 \\ & & \quad 000 \\ & & \hline & & 0000 \\ & & \quad 0000 \\ & & \hline & & .0000 \end{array}$$

Hubsiimo, ma hagaagsan tahay : $0.16 \times 200 = 32?$

Tusaale :

Shaar buu Cawil ku gatey 45 shilin. Haddii qiimahaasi uu yahay 75% qiimihii hore, meeqa ayuu ahaa qiimahiisii hore ?

Furfuris :

$$75\% \text{ ka } t = 45 \text{ shilin}$$

$$\begin{array}{r} & & 60 \\ & & \hline 0.75 \times t = \text{--- taas oo ah } 75 & | \quad 4500 \\ & & \quad 0.75 \\ & & \hline & & 000 \\ & & \quad 000 \\ & & \hline & & 000 \\ & & \quad 000 \\ & & \hline & & 000 \end{array}$$

Qiimahii hore ee shaarku = 60 shilin.

Layli :

- 1) Raadi t intay tahay meelaha hoos ku yaal :
 - b) 20% ka t = 18
 - t) 30% ka t = 21
 - j) 2% ka t = 10
 - x) 7% ka t = 28
 - kh) 65% ka t = 15.6
 - d) 25% ka t = 20
 - r) 40% ka t = 150
 - s) 15% ka t = 126
 - sh) 5% ka t = 4.25
 - dh) 34% ka t = 12.5
- 2) O.H.R.M. ee degmada Hobyo waxa wax ka bartay 3160 qof. Haddii 5% aanay wax ka barani O.H.R.M. immisa qof ayaan O.H.R.M. ka hor aan wax qori jirin, waxna akhriyi jirin ?
- 3) Abaartii 1974 Dawladda Kacaanku si ay u badbaadiso nolosha dadweynaha soomaaliyeed waxay ka dhigtay sicirkii bariiska ee degmooyinka abaartu saamaysay kiiloogiiba 3 shilin. Haddii sicirkaa cu-subi uu yahay 60% sicirkii hore, immisa ayaa kii-looga bariiska ah hore loogu gadi jiray?

KORRODH IYO DHINMID BOQOLKIIBA

KORRODH

Tusaale :

Kacaanka ka hor dugsiyada hoose fasalka koowaad waxa loo qaadan jiray 5,000 oo arday, haddana waxa loo qaataa 10,000. Boqolkiiba immisa ayaa ku kordhey?

Korrodh waa = 10,000 - 5,000 = 5,000 Arday.

Korrodh boqolkiiba = $\frac{\text{korrodh}}{\text{tiradii hore (qiimihii hore)}}$

Hadda :

$$\text{Korrodh \%} = \frac{5,000}{5,000} = 1 = 100\%$$

Korrodh boqolkiiba ee ardaydu waa 100%.

DHINMID :

Tusaale :

Kacaanku si uu u badbaadiyo nolosha dadweyna Soomaaliyeed xilligii abaartii 1974, waxa ay ka dhigeen sicirkii kii-looga bariiska ah ee meelaha abaartu saameysay 3/= oo ke-liya. Sicirka kiilooga bariisku awal wuxuu ahaa 5 shilin. Boqolkiiba immisa ayaa sicirkii hoos loo dhigay.

Dhinmid waa 5 - 3 = 2.

Dhinmid boqolkiiba = $\frac{\text{dhinmid}}{\text{Qiimihii hore (tiradii hore)}}$

Hadda :

$$\text{Dhinmid \%} = \frac{2}{5} = 0.4 = 40\%.$$

Dhinmida boqolkiiba ee sicirku waa 40%.

Layli :

- 1) Cayaartoyda kubbadda cagta dugsiga hoose ee Biyodhacay waxa ay badiyeen 10 ciyaarood. Kal hore waxa ay badiyeen 6 ciyaarood. Haddii labada jeer inta ciyaarood ay dheeleen islekaayeen, boqolkiiba badiskoodu immisa ayuu kordhay?
- 2) Miisaaniyad degmadani waxa ay ahayd 2 malyuun Kacaanka ka hor, haddana waxa ay gaartay 5 malyuun. Boqolkiiba immisa ayaa ku kordhay?
- 3) Sicirka hal ukun ah ayaa ka kordhay 30 senti ilaa 40 senti. Korodhkaasi boqolkiiba waa ka immisa ?
- 4) Guri baa kiradiisa laga soo dhimmay 120 ilaa 80. Dhimiddaasi boqolkiiba waa immisa ?
- 5) Soo saar boqolkiiba inta jahligu soo dhacay ee degmooyinka?

Degmada	Intaan wax aqoon O.H.R.M. ka hor	Intaan wax ka baran O.H.R.M.
Boorame	12,000	300
Afmadow	7,000	2,000
Qoryooley	30,000	6,000
Buuhoodle	9,000	3,000

Tusale : Dhinmid

Degmada Iskushuban O.H.R.M. ka hor waxaan wax qori jirin 15000 oo qof, haddana waxaan wax qorin 150 qof. Boqolkiiba immisa ayuu jahligu dhinmay.

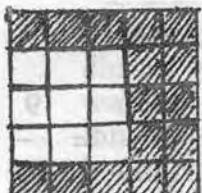
Furfuris :

Dhinmid = qiimahii hore (Tiradii hore) — tirada dambe.
Dhinmid = 1500 qof — 150 qof = 1350 qof.

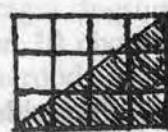
Dhinmid	
Dhinmizza boqolkiiba =	Qiimahii hore
Haddaba, dhinmizza boqolkiiba	1350
	1500
	= 9
	10
	= 0.9
	= 90%

Jahligu waxa uu hoos u dhacay 90%.

BED IYO WARREEG



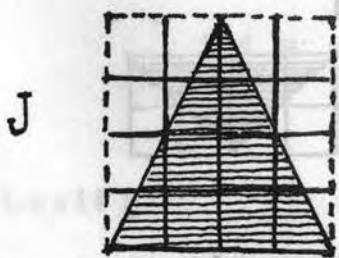
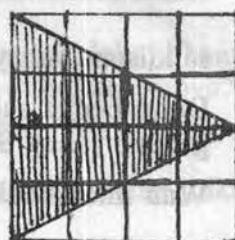
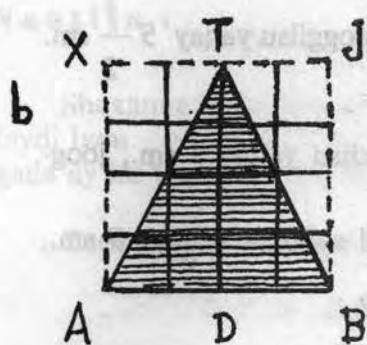
(b)



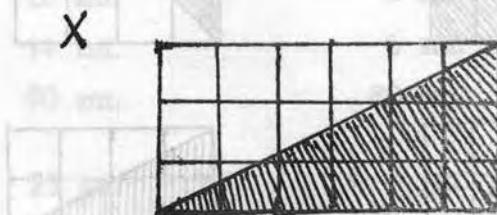
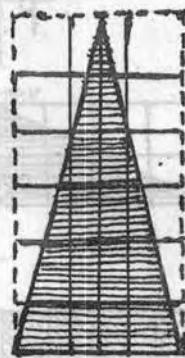
(t)

- 1) Raadi bedka iyo wareegga shaxannadan inta haraysan.
- 2) Hel bedka iyo wareegga.
 - b) Laydi dhererkiisu yahay 10 sm, ballaciisuna yahay 2 sm.
 - t) Laydi dhererkiisu yahay 8 sm, ballaciisuna yahay 4 sm.
- 3) Hel wareegga laydi aaddimihiisu yihiin 2 sm iyo 4 sm. iyo labajibbaarane dhinacii 3 sm yahay.
 - i) Isku mid ma yihiin wareegyada labada shaxan?
 - ii) Haatan, raadi bededkooda.
 - iii) Isku mid ma yihiin bededku?
- 4) b. Raadi bedka iyo wareegga labajibbaarane dhinacii yahay 4 sm.
 - t. Haatan, raadi bedka iyo wareegga laydi aaddimihiisu yihiin 3 sm iyo 5 sm.
 - j. Wareegyada laydiga iyo labajibbaaranehu isku mid ma yihiin ?
 - x. Labada shaxan isku bed ma yihiin?
- 5) Raadi bededka iyo wareegyada laba laydi oo aaddimohoodu kala yihiin 3 sm. iyo 4 sm. iyo 2 sm. iyo 6 sm.
- 6) Isgarabdhig bededka iyo wareegyada labajibbaarane dhinacii 5 sm yahay iyo laydi aaddimihiisu yihiin 25 sm. iyo 1 sm.

- 1) Raadi bededka shaxannadan intooda haraysan.

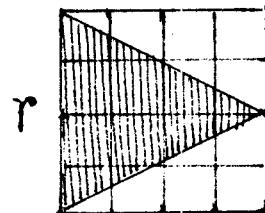
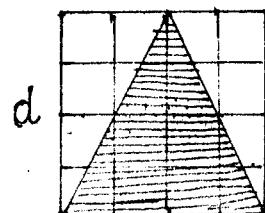
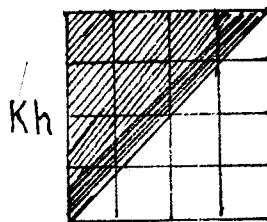
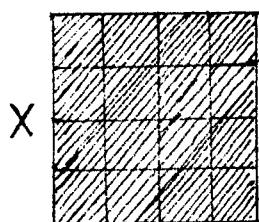
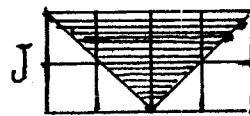
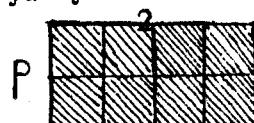


Kh



- 2) Sidee baa ugu gaaban ee aad ku heli kartaa bedka shaxan b, t ama x?
- 3) Waa intee bedka saddexagal uu jooggiisu yahay 4 sm. salkiisuna yahay 2 sm.? Bal hadda sawir saddexagalkaa. Immisa siyood baad u sawiri kartaa?

- 1
- 4) Raadi bedka saddexagal uu jooggiisu yahay $5\frac{1}{2}$ sm.
salkiisuna yahay 8 sm.
- 5) Doon bedka saddexagal salkiisu yahay 8 sm., jooggiisuna yahay 9 sm.
- 6) Waa intee bedka saddexagal salkiisu yahay 6 sm.,
jooggiisuna yahay $7\frac{1}{2}$ sm.?



1. Raadi bedka shaxannadan (mid kasta intusa haraysan), adigoo tirinaya.
2. Kuwee isku bed ah.

Naqtiin :

Shaxannada sallaxa ah sida, saddexagal, labajibbaarane, laydi iwm. waxa ay leeyihim dherer iyo ballac keliya. Jagada ay ku sadhiyaanna waxa la yiraahdaa bed.

Bedka labajibbaarane iyo laydi waxa lagu helaa jidka.

Bed = dherer \times ballac.

Bedka saddexagal waxa lagu helaa jidka :

$$\text{Bed} = \frac{1}{2} \text{ joog} \times \text{dherer.}$$

Layli :

Soo saar bedka laydiyadan :

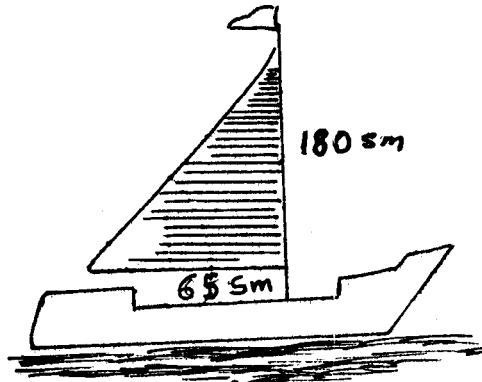
Dherer	Ballac
--------	--------

- | | |
|--|--------------------|
| 1) 10 sm. | 5 sm. |
| 2) 14 sm. | 6 sm. |
| 3) 90 sm. | 80 sm. |
| 4) 25 sm. | $7\frac{1}{2}$ sm. |
| 5) Beer baa dhererkeedu 120 m. yahay. Haddii balaceedu 10 m. ka weyn yahay dhererkeeda waa maxay bedka beertu? | |
| 6) Soo saar bedka labajibbaaraneha ballaciisu yahay :
1) 10 sm., 2) 12 sm., 3) 150 sm., 4) 126 sm. | |

7) Soo saar bedka saddexagal kasta.

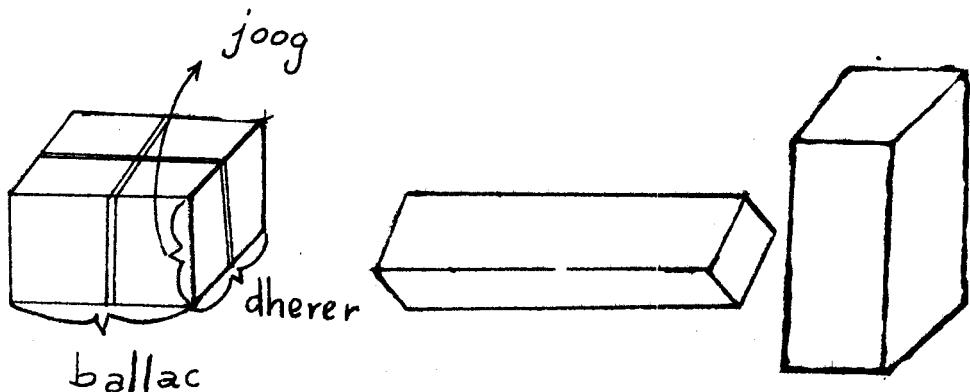
- | Dherer | ballac | dherer | ballac |
|------------|--------|-----------|--------|
| b. 100 sm. | 46 sm. | j. 4 sm. | 50 sm. |
| t. 80 sm. | 70 sm. | x. 16 sm. | 24 sm. |

8) Doonta Axmed shiraaceedu waa qaab saddexagal. Salka shiraaca dhererkiisu waa 65 sm., jooggiisuna waa 180 sm. Iminisa sm. labajibbaaran weeye shiraacu ? (Eeg shaxanka hoose).

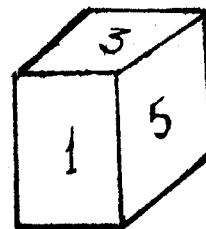
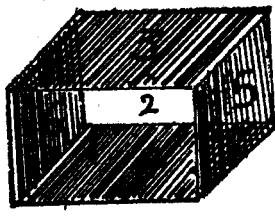


M U G

Waxa jira shaxanno badan oo leh dherer, ballac iyo joog
Fiiri kuwan :

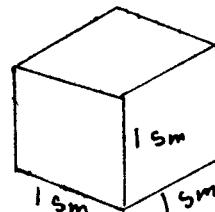
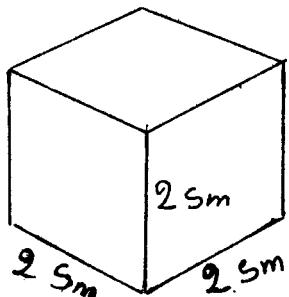


Sanduuqu wuxu leeyahay lix weji oo midkasta yahay lay-di.



Waxa muuqda saddex weji.

Sanduuqa liixa wejiba yihii labajibbaaraneyaal iswada
le'eg waxa la yiraahdaa saddex jibbaarane.

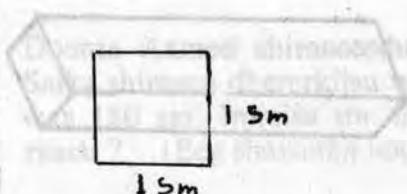


Shaxannada leh dherer, ballac iyo joog waxay cabbirkoodu leeyihiin mug.

Mugga shay waa dulalaatiga uu buuxiyo shaygaasu. Marka aan radinayno bedka dul waxa aynu isticmaalaa halbeegga ah 1 sm^2 . Haddaba mugga waxa halbeeg u ah 1 sm^3 , ama saddex jibbaarane weji kastaa yahay 1 sm .

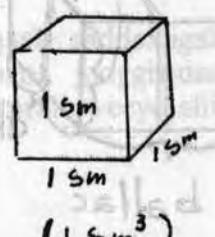


Halbeegga bedka



$$(1 \text{ sm}^2)$$

Halbeegga mugga



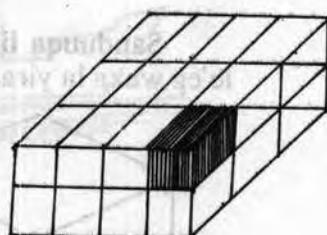
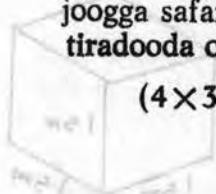
$$(1 \text{ sm}^3)$$

Fusaale 1 :

Sanduuq baa dherrekiisu yahay 3 sm ., ballaciisu yahay 4 sm ., jooggiisu yahay 2 sm . Immisa sentimiter oo saddexjibbaaran baa geli kara ?

Sida aan shaxanka baasha ku aragno, inta madoobi waa hal sm . oo saddex jibbaaran. 24 caynkaasa ayaa geli karaaya. Fiiри tirada saddexjibbaarane ee ballaca safani waa 4 , inta dhererka safani waa 3 , inta joogga safani waa 2 . Sidaa awgeed, tiradooda oo idili waa :

$$(4 \times 3 \times 2) \text{ sm}^3 = 24 \text{ sm}^3.$$



Haddaba, Mug = dherer × ballac × joog.

Waa maxay mugga şanduuq dherkiisu 12 sm. yahay, ballaciisu 10 sm. yahay, joeggiisuna 4 sm. yahay ?

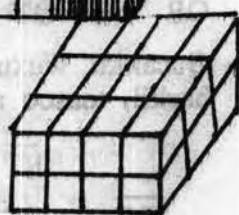
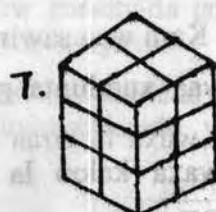
Furfurius;

Mug = dherer × ballac × joog

Sidaa awgeed, mugga sanduuqu waa ($12 \times 10 \times 4$) sm³. ama 480 sm³.

Layli :

- 1) Immisa sm³. ayaa ku jira shaxan B?
 - 2) Immisa sm³. ayaa ku jira shaxan T?
 - 3) Immisa sm³. ayaa ku jira shaxan J?



Raadi mugga sanduuqvada

	Dherer	Ballac	joog
4)	15 sm.	10 sm.	5 sm.
5)	10 sm.	9 sm.	16 sm.
6)	60 sm.	40 sm.	20 sm.
7)	180 sm.	100 sm.	50 sm.
8)	4 m.	5 m.	3 m.
8)	15 m.	20 m.	8 m.
10)	Waa maxay mugga sadde yahay 40 sm.?		

11) Soo saar mugga saddexjibbaarane haddii dhererka dhinac kasta yahay 12 m?

12) Cawaale berked buu u qoday xoolihiiisa. Berkedda dhererkeedu waa 26 m., ballaceedu was 18 m., joogeeduna waa 16 m. Soo saar mugga berkedda.

GOOBO

Kani waa sawir goobo.

O waa xuddunta goobada.

BOT waxa la yiraa dhexroor. Dhexroorka waxa kaloo la oran karaa xariijinta BT.

J waa bar wareegga goobada ku taalla.

OJ waa gacan.

OB iyo OT iyaguna waa gacanno.

Gacanku wuxu le'eg yahay dhexroorka barkii, taasoo ah :

BT

$$\overline{OJ} = \frac{1}{2} \text{ ama } \overline{OT} = \overline{OB} = \overline{OT}.$$

Layli :



O Waa xuddunta goobada.

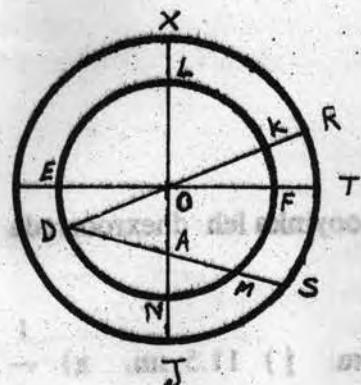
1) Magacaw 2 dhexroor.

2) Magacaw 5 gacan.



BT iyo JT waa dhexroorro.

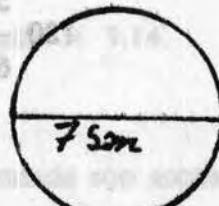
- 3) Magacaw xuddunta goobada.
- 4) Magacaw dhexroor kale.
- 5) Magacaw 4 gacan.



- 6) Magacaw gacamada goobada dhexda ku jirta.
- 7) Magacaw gacannada goobada dhexroorkeedu yahay BT.
- 8) Gacannada layliga 6 iyo layliga 7 yaa weyn ?
- 9) Magacaw xuddumaha labada goobo ee isku dhex jira.

MEERISKA GOOBO

Qaado dun iyo mastarad oo tabbir meeriska iyo dhexroorka goobo kasta oo soo socota.



Haddii meeriska goobo kasta aad u qaybiso dhexroorkeeda, had iyo jeer waxad heli qayb le'eg ama u dhaw 3.14.

Meeris ÷ dhexroor = 3.14.

Weedha iskudhufashada ee isu qaybintaas waa :

Meeris = dhexroor × 3.14.

Jidkaas ayaa lagu helaa meeriska goobo kasta. Jidka dhexroorka lagu helaa waa :

Dhexroor = meeris ÷ 3.14.

Laylisyo :

1) Raadi meeriska goobooyinka leh dhexroorrada soo sooda :

- b) 8 sm. t) 9 sm. j) 11.5 sm. x) $\frac{1}{4}$ sm.
kh) 16.5 sm.

2) Raadi gacannada goobooyinka leh meerisyada soo socda.

- b) 44 t) 14 j) 99 x) 176.

3) Beer qaab goobo ah ayaa gacankeedu yahay
 $\frac{5}{6}$ 120 m. Raadi meeriska beerta.

BEDKA GOOBO

Waxqabadkii fasalka ee ku saabsanaa goobo loo ekeysii-nayo laydi waxan ka ogaanay in bedka goobo kasta lagu helo jidkan :

$$\text{Bedka goobo} = \text{gacan} \times \text{gacan} \times 3.14.$$

Layli :

1) Raadi bedka gooboyinka gacannada soo socda leh

b) 2.50 sm. t) 12.30 sm. j) 14.25 sm.

x) $4\frac{3}{4}$ sm.

- 2) Beer leh qaab goobo ayaa dhexroorkeedu yahay 14.50 m. Raadi bedka beerta.
- 3) Cali ayaa asagoo ordaya ku soo wareegay garoon qaab goobo ah oo dhexroorkiisu yahay 150 m., isla markaas Caashana waxay orod ku soo wareegtay garoon isna qaab goobo ah oo gacankiisu yahay 120 m. Cali iyo Caasha midba immisa mitir buu orday?
- 4) Su'aasha 3aad, haddii Cali iyo Caasha ay orodkoo-ka isla ammin bilaabeen isla amminna dhammeeyeen, koodee baa dheereeya ?

