

Boqonnaa

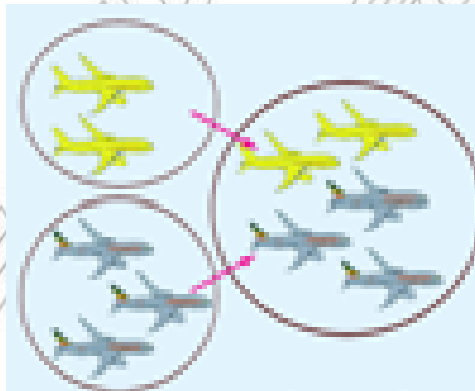
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## QOYYABOOTA ARFAN LAK- KOOFSOTA HUNDAА HAMMA 1,000,000TTI JIRAN IRRATTI

### 2.1 Ida'uu fi hir'isuu lakkoofsota hundaa hamma 1,000,000tti jiranii

#### 2.1.1 Ida'uu



#### Gocha 2.1.1A

- 1 Kanneen armaan gadii ida'i.
  - a  $2000 + 350$
  - b  $1275 + 12400$
- 2 Obbo Qajeelaan horii fi handaaqoo horsiisuun beekamu. Guyyaa ayyaanaa tokko sangoota lama qarshii 4125 fi handaaqqolii dhibba lama qarshii 5623 tti gurguratan. Walumaa galatti obbo Qajeelaan sangootaa fi handaaqqolii guyyaa kana gurguratan irraa qarshii meeqa argatani?

## Fakkeenya 1

$$34,151 + 2,438 = \underline{\hspace{2cm}}$$

Furmaata:-

- Ida' amtuuwwan akka mana lakkoofsa isaaniitti irraa fi jalatti barreessuun asii gadi ida'uu.

$$\begin{array}{r} 34,151 \\ + 2,438 \\ \hline 36,589 \end{array}$$

Kanaafuu,  $34,151 + 2,438 = 36589$

## Fakkeenya 2

Aanaa qotee bulaa tokko keessa dhiira 32,012 fi dubara 32,322tu jiraata. Baay'inni uummata aanaa kanaa meequadha?

Furmaata:-

	Mana kuma kudhanii	Mana kumaa	Mana dhibbaa	Mana kurnanii	Mana tokkee
➤ Ida' amtuuwwan akka mana lakkoofsota isaaniitti irraa fi jalatti barreessuun irraa gadi ida'uu	3	2	0	1	2
Ida'ama	6	4	3	3	4
➤ Jalqaba mana tokkee ida'uu $2 + 2 = 4$					
➤ Itti aansuun mana kurnanii ida'uu $1 + 2 = 3$					
➤ Itti aansuun mana dhibbaa ida'uu $0 + 3 = 3$					
➤ Itti aansuun mana kumaa ida'uu $2 + 2 = 4$					
➤ Dhuma irratti mana kuma kudhanii ida'uu $3 + 3 = 6$					

$$\begin{array}{r} 32,012 \\ + 32,322 \\ \hline 64,334 \end{array}$$

← Mana tokkee ( $2 + 2 = 4$ )  
 ← Mana kudhanii ( $1 + 2 = 3$ )  
 ← Mana dhibbaa ( $0 + 3 = 3$ )  
 ← Mana kumaa ( $2 + 2 = 4$ )  
 ← Mana kuma kudhanii ( $3 + 3 = 6$ )

Kanaafuu, namoota 64,334tu aanaa kana keessa jiraata jechuudha.

## Fakkeenya 3

$$372,856 + 456,364 = \underline{\hspace{2cm}}$$

Furmaata:-

Akka mana lakkoofsa isaaniitti irraa fi jalatti barreessina.
Mana tokkee ida'uu $6 + 4 = 10$ . 0 barreessinee 1 gara mana kudhaniitti dabarsina.
Hambifannaa keenyaa fi kanneen mana kudhanii ida'uu $1 + 5 + 6 = 12$ . 2 barreessinee 1 gara mana dhibbaatti dabarsina.
Hambifannaa keenyaa fi kanneen mana dhibbaa ida'uu $1 + 8 + 3 = 12$ . 2 barreessinee 1 gara mana kumaatti dabarsina.
Hambifanna kanaa fi dijiitota mana kumaa ida'uu $1 + 2 + 6 = 9$ . 9 mana kumaatti barreessinna.
Mana kuma kudhanii ida'uu $7 + 5 = 12$ . 2 barreessinee 1 gara mana kuma dhibbatti dabarsina.
Dhumarratti, hambifannaa kanaa fi dijiitota mana kuma dhibbaa ida'uu. $1 + 3 + 4 = 8$ . 8 mana kuma dhibbaatti barreessina.

Kanaafuu,  $372,856 + 456,364 = 829,220$

### Gilgaala 2.1.1A

1 Irraa fi jalatti barreessuun ida'i

a  $1223 + 4561$

d  $721, 357 + 23, 521$

g  $759, 721 + 27$

b  $2548 + 421$

e  $792, 788 + 107, 211$

c  $31, 453 + 4,326$

f  $348, 729 + 15,210$

Amala jijjiirraa iddoo fi amala jijjiirraa hammattuu ida'uu keessatti

A Amala jijjiirraa iddoo ida'uu keessatti

### Gocha 2.1.1B

1 Ida'i

a  $34 + 25 = \square$

c  $432 + 357 = \square$

b  $25 + 34 = \square$

d  $357 + 432 = \square$

2 Gaaffii 1<sup>ffaa</sup> irratti Furmaata argattan irratti hundaa' uun

- Deebiin c fi d walqixaa? Ida' amtuuwwan iddoo waljijjiiraniiruu?
- Deebiin a fi b walqixaa? Ida' amtuuwwan iddoo waljijjiiraniiruu?
- Kanaafuu, ida' amtuuwwan iddoo yoo wal jijjiiran ida' amni ni jijjiiramaa?

## Hubadhu:

Lakkoofsota hundaa a fi b maraaf,

$$a + b = b + a$$

kun amala jijjiirraa iddoo kan ida'uu jedhama.

### B Amala jijjiirraa Hammattuu ida'uu keessatti

#### Gocha 2.1.1C

Bilisee fi Faaxumaan ida'ama 10, 30 fi 50 gaafatamanii akka armaan gadiitti hojjetani:

Biliseen :- Jalqaba 10 fi 30 walitti idaattee deebii isaa irratti 50 idaattee.

$$\text{Kanaafuu, } (10 + 30) + 50 = 40 + 50$$

$$= 90 \text{ jettee deebifte}$$

Faaxumaan :- Jalqaba 30 fi 50 walitti idaattee deebii isaa irratti 10 idaattee.

$$\text{Kanaafuu, } 10 + (30 + 50) = 10 + 80$$

$$= 90 \text{ jettee deebifte.}$$

Gaaffii:- Deebiin Bilisee fi Faaxumaan deebisan sirriidhaa?

Haala Bilisee fi Faaxumaan itti hojjetan garaa garummaa qabaa?

## Fakkeenya

Ida'i

$$3124 + 143 + 52632 = \underline{\hspace{2cm}}$$

Furmaata:-

$$(3124 + 143) + 52632 = 3267 + 52632 = 55899$$

Yookiin

$$3124 + (143 + 52632) = 3124 + 52775 = 55899$$

## Hubadhu:

Lakkoofsota hundaa a, b fi c maraaf:

$$(a + b) + c = a + (b + c)$$

Kun Amala jijjiirraa hammattuu kan ida'uu jedhama.

**Gilgaala 2.1.1B**

1 Kanneen armaan gadii ida’i

- |          |                               |          |                            |
|----------|-------------------------------|----------|----------------------------|
| <b>a</b> | $975 + 347$                   | <b>g</b> | $784 + 83477 + 4384$       |
| <b>b</b> | $762 + 899$                   | <b>h</b> | $99007 + 1003 + 12359$     |
| <b>c</b> | $38421 + 9999$                | <b>i</b> | $(42 + 104) + 8232$        |
| <b>d</b> | $(672, 431 + 104, 211) + 456$ | <b>j</b> | $5004 + 2762 + 11$         |
| <b>e</b> | $2253 + 3404 + 131$           | <b>k</b> | $30,303 + 110,444 + 4,150$ |
| <b>f</b> | $364, 521 + (12,435 + 1,012)$ |          |                            |

2 Irraa gadee ida’i.

	$1345$	$234$	$999$
	$78356$	$4562$	$3567$
	$12498$	$72665$	$15642$
<b>a</b>	$7884$	<b>b</b>	$8211$
	$+ 831$	<b>c</b>	$26718$
	<u>          </u>		$+15278$
	<u>          </u>		<u>          </u>
	<u>          </u>		<u>          </u>
	<u>          </u>		<u>          </u>
	<u>          </u>		<u>          </u>
	<u>          </u>		<u>          </u>

3 Pirobileemota jechaa armaan gadii furi.

- a** Qotee bulaan tokko garbuu kiiloogiraama 1345, qamadii kiiloogiraama 3211 fi talbaa kiiloograama 3002 galchate. Walumaa galatti qotee bulaan kuni midhaan hammam galchate?
- b** Xiyyaarri tokko torban jalqabaa kiiloomeetira 92,156 torban 2<sup>ffaa</sup> kiiloomeetira 65,468 torban 3<sup>ffaa</sup> immoo kiiloomeetira 5,254 yoo balali’ee, walii galatti xiyyaarri kun torban sadan keessatti kiiloomeetira meeqa balali’e?
- c** Aanaa tokko keessatti uummata filannoof galmaa’e keessaa 25342 yoo sagalee kennani 285 garuu osoo sagalee hinkenniin hafan. Walumaa galatti uummanni aanaa kana irraa filannoof galmaa’an meeqa ta’u?
- d** Guyyaa tokko bunny godinoota Oromiyaa shan irraa gabaaf dhiyaate akka armaan gaditti ibsameera.

Godina	Harargee Bahaa	Jimma	Wallaggaa Bahaa	Baalee	Iluu Abbaa Booraa
<b>Kiloogiraamaan</b>	2990	2991	2992	2824	3484

Bunny godina shanan irraa gabaaf dhiyaate kiiloogiraama meeqa?

- e** Galiin uummata aanaa afuri irraa arganne qarshii 30,546; 29,453; 18,450 fi 23,101 yoo ta’e, walumaagalatti galiin aanota kana irraa argame qarshii meeqa ta’a?

## 2.1.2 Hir'isuu

### A Liqeffannaa malee hir'isuu

#### Gocha 2.1.2A

Hir'isi

a  $58 - 25 = \underline{\quad}$

b  $700 - 300 = \underline{\quad}$

#### Fakkeenya 1

Barattoota 5846 qorumsa fudhatan keessaa barattootni 23 hin dabarre.

Barattootni qorumsa darban meeqa ta'u?

Furmaata :-

$$\begin{array}{r} 5,846 \\ - 23 \\ \hline 5,823 \end{array}$$

- Akkaataa mana lakkoofsa isaaniitti irraa fi jalatti barreessina.
- Akka mana lakkoofsa isaaniitti walirraa hir'isuun caalmaa argame mirgaa irraa gara bitaatti barreeffachaa deemna.

Mana tokkee ( $6 - 3 = 3$ )

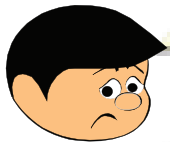
Mana kudhanii ( $4 - 2 = 2$ )

Mana dhibbaa ( $8 - 0 = 8$ )

Mana kumaa ( $5 - 0 = 5$ )

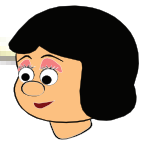
Kanaafuu, barattootni qorumsa darban  $5,846 - 23 = 5,823$

Deebii isaa yoo mirkaneeffannu,  $23 + 5,823 = 5,846$



Deebiin kee sirrii ta'uu isaa akkamiin mirkaneeffata?

Kun immoo maal nama dhibaree, caalmaa fi hir'isaan ida'amanii hir'ataa wajjin wal qixa ta'uu qabu.



#### Hubadhu:

*Caalmaan argame kan sirrii ta'uu danda'u yoo*

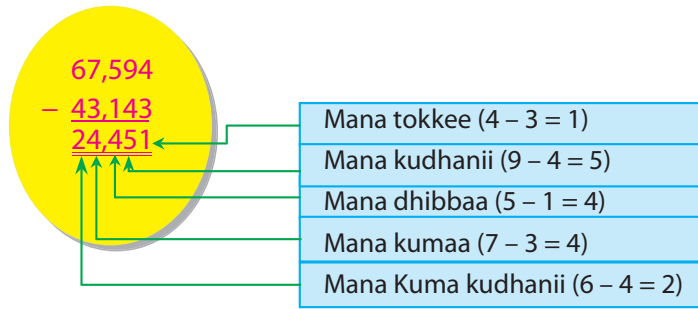
*caalmaa + hir'isaa = hir'ataa ta'e qofadha.*

#### Fakkeenya 2

Hir'isi

$67594 - 43143 = \underline{\quad}$

Furmaata:-



Kanaafuu,  $67,594 - 43,143 = 24,451$

Yoo mirkaneessinu 24,451

+ 43,143

67,594 → Deebiin keenya sirriidha.

### Gilgaala 2.1.2A

Akkaataa mana isaaniitti irraa fi jalatti barreessii hir'isi. Deebiin argatte sirrii ta'uu ida'uudhaan mirkaneeffadhu.

a  $987 - 45$

c  $57,832 - 11,711$

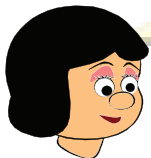
e  $999,788 - 900,007$

b  $3847 - 2704$

d  $256,724 - 125301$

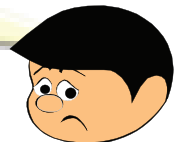
f  $900,909 - 101,002$

### B Liqeffannaan hir'isuu



3 - 9 fi 9 - 3 akka wal qixa hintaane ni beektaa?

Sirriittin beeka  $9 - 3 = 6$  garuu  $3 - 9$  hindanda'amu. Sababni isaas hir'isaan hir'ataa caala waan ta'ef.



Dhugaa keessani 3 - 9 fi 9 - 3 wal qixa miti. Kana jechuun hir'isuun amala jijjiiraa iddoo hin qabu jechuudha.

## Hubadhu:

⇒ Lakkoofsota hundaa  $a$  fi  $b$  keessatti:

$$a - b \neq b - a$$

Kana jechuun, hir'isuun amala jijjiiraa iddoo hinqabu jechuudha.

⇒ Lakkoofsa hundaa  $a, b$  fi  $c$ ,  $(a - b) - c \neq a - (b - c)$

Kana jechuun, hir'isuun amala jijjiiraa hammatuu hinqabu jechuudha.

Fakkeenyaaf

$$(5 - 3) - 2 \neq 5 - (3 - 2)$$

$$2 - 2 \neq 5 - 1$$

## Fakkeenya 3

$$6735 - 1846 = \underline{\hspace{2cm}}$$

Furmaata:-

$$\begin{array}{r} 6,735 \\ - 1,846 \\ \hline 4,889 \end{array}$$

Akka mana lakkoofsa isaaniitti irraa fi jalatti barreessina.

Mana tokkee walirraa hir'isuu. 5 - 6 waan hindanda'amneef mana kudhanii 3 irraa kudhan tokko liqeeffachuun 5 isa tureetti daballee 15 taasina. Kanaaf,  $15 - 6 = 9$

Mana kudhanii 3 irraa kudhan tokko liqeeffanee jirra waan ta'eef 3 - 4 osoo hin taane 2 - 4 ta'a. 2 - 4 waan hindanda'amneef mana dhibbaa 7 irraa kuma tokko liqeeffachuun isa 2 tureetti daballee 12 taasifna. Kanaaf,  $12 - 4 = 8$

Mana dhibbaa 7 irraa dhibba tokko liqeeffanee jirra waan ta'eef, 7 - 8 osoo hin taane 6 - 8 ta'a. 6 - 8 waan hindanda'amneef mana kumaa 6 irraa kuma tokko liqeeffachuun isa 6 tureetti daballee 16 taasifna. Kanaaf  $16 - 8 = 8$ .

Mana kumaa 6 irraa kuma tokko liqeeffanee jirra waan ta'eef 6 - 1 osoo hintaane 5 - 1 = 4 ta'a jechuu dha.

$$\text{Kanaafuu, } 6,735 - 1,846 = 4,889$$

### Gilgaala 2.1.2B

1 Kanneen armaan gadii hr'isi. Deebiin argatte sirrii ta'uu ida'uudhaan mirkaneeffadhu.

a  $4772 - 87$

d  $63042 - 29866$

g  $374,675 - 185,783$

b  $811 - 388$

e  $80003 - 899$

c  $4239 - 1345$

f  $761,121 - 98,784$

2 Piroobleemota jechaa armaan gadii furi.

a Barattoota 5432 mana barumsaa tokko keessa jiran keessaa barattootni 1897 gumiilee adda addaatti hirmaatanii jiru. Barattoonni gumii kamittuu hinhirmaanne meeqa ta'u?

b Obbo Oliin sangaa tokko qarshii 3753'n biteetu qarshii 4209'n deebisee gurgure. Obbo Oliin qarshii meeqa buufate?

c Xiyyaarri tokko osoo hoomaa iyyuu hinfe'atiin hangi isaa kiiloogiraama 53288 ture. Erga meeshaalee adda addaa fe'atee booda garuu hangi isaa kiiloograama 59809 ta'e. Kanaafuu, hangi meeshaalee fe'amee kiiloogiraama meeqa ta'a?



## 2.2 Baay'isuu lakkoofsota hundaa kan baay'ataan 1,000,000 hin caalle

### 2.2.1 Lakkoofsota hundaa lakkoofsa dijiitii tokkoon baay'isuu.

×	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10
2	2	4	6	8	10	12	14	16	18	20
3	3	6	9	12	15	18	21	24	27	30
4	4	8	12	16	20	24	28	32	36	40
5	5	10	15	20	25	30	35	40	45	50
6	6	12	18	24	30	36	42	48	54	60
7	7	14	21	28	35	42	49	56	63	70
8	8	16	24	32	40	48	56	64	72	80
9	9	18	27	36	45	54	63	72	81	90
10	10	20	30	40	50	60	70	80	90	100

#### Gocha 2.2.1A

1  $5 \times 12 = \underline{\hspace{2cm}}$

2  $\underbrace{5+5+5+5+5+5+5+5+5+5+5+5}_{5 \text{ sii } 12 \text{ ida'uu}} = \underline{\hspace{2cm}}$

3 Gaaffii 1 fi 2 deebiin isaanii walqixaa? Maaliif ?

4 Kanneen armaan gadii irratti gareen mari'adhaatii deebisaa.

Bunni kiiloogiraamni tokko qarshii 30 yoo ta'e, bunni kiiloogiraama

a Lama immoo qarshii meeqa ta'aa?

c Afuri hoo?

f Torba hoo?

d Shan hoo?

g Saddeetan isaa hoo?

b Sadii hoo?

e Ja'a hoo?

h Salgan isaa hoo?

#### Fakkeenya 1

$3 \times 2313 = \underline{\hspace{2cm}}$

## Furmaata:-

	Mana kumaa	Mana dhibbaa	Mana kurnanii	Mana tokkee
➤ Akka mana lakkoofsota isaaniitti irraa fi jalatti barreessuun baay'isuu	2	3	1	3
	×			3
	6	9	3	9
➤ Mana tokkee 3'n baay'isuu $3 \times 3 = 9$				
➤ Mana kudhanii 3'n baay'isuu $3 \times 1 = 3$				
➤ Mana dhibbaa 3'n baay'isuu $3 \times 3 = 9$				
➤ Mana kumaa 3'n baay'isuu $3 \times 2 = 6$				

Kanaafuu,  $3 \times 2313 = 6939$

Karaa biraa:-  $2313$  yoo diriirsinu  $2000 + 300 + 10 + 3$  ta'a

$$\left. \begin{array}{l} 3 \times 3 = 9 \\ 3 \times 10 = 30 \\ 3 \times 300 = 900 \\ 3 \times 2000 = 6000 \end{array} \right\} \rightarrow \text{yoo ida'amu } 6939 \text{ ta'a}$$

## Fakkeenya 2

$$4 \times 202,121 = \underline{\hspace{2cm}}$$

## Furmaata:-

202,121	← Irraa fi jalatti barreessuu.
×	← Mana tokkee 4'n baay'isuu ( $4 \times 1 = 4$ )
4	← Mana kudhanii 4'n baay'isuu ( $4 \times 2 = 8$ )
808,484	← Mana dhibbaa 4'n baay'isuu ( $4 \times 1 = 4$ )
	← Mana kumaa 4'n baay'isuu ( $4 \times 2 = 8$ )
	← Mana kuma kudhanii 4'n baay'isuu ( $4 \times 0 = 0$ )
	← Mana kuma dhibbaa 4'n baay'isuu ( $4 \times 2 = 8$ )

Kanaafuu,  $4 \times 202121 = 808,484$

### Fakkeenya 3

$$9 \times 42,834 = \underline{\hspace{2cm}}$$

Furmaata:-

	Irraa fi jalatti barreessuu.
	Mana tokkee 9'n baay'isuu ( $9 \times 4 = 36$ ) 6 barreessine 3 hambifanna.
	Mana kudhanii 9'n baay'isuun 3 itti ida'uu. ( $9 \times 3 + 3 = 30$ ) 0 barreesinee 3 hambifanna.
	Mana dhibbaa 9'n baay'isuu fi 3 itti ida'uu ( $9 \times 8 + 3 = 75$ ) 5 barreeffanee 7 hambifanna.
	Mana kumaa 9'n baay'isuun 7 itti ida'uu ( $9 \times 2 + 7 = 25$ ) 5 barreeffanee 2 hambifanna.
	Mana kuma kudhanii 9'n baay'isuun 2 itti ida'uu. ( $9 \times 4 + 2 = 38$ ) 8 barreesffanee 3 hambifanna.
	3 Mana kuma dhibbaatti barreeffanna.

Kanaafuu,  $9 \times 42,834 = 385,506$

#### Gilgaala 2.2.1A

- Baay'isi
 

a	$4 \times 2,121$	c	$6 \times 30,124$	e	$8 \times 73,452$	g	$3 \times 72,009$
b	$5 \times 1,001$	d	$7 \times 999$	f	$2 \times 112,121$	h	$8 \times 34,343$
- Mindaan hojjetaa tokkoo ji'atti qarshii 1,692 yoo ta'e, mindaan hojjetaa kanaa kan ji'a 9 qarshii meeqa ta'a?
- Gatiin xaafii kuntaala tokkoo qarshii 800 yoo ta'e, gatiin xaafii kuntaala 7 qarshii meeqa ta'a?
- Warshaan shukkaaraa tokkoo guyyaa tokkotti shukkaara kuntaala 384,745 yoo oomishe, guyyaa 8 tti kuntaala meeqa oomishuu danda'a?

### 2.2.2 Lakkoofsa hundaa lakkoofsa dijiitii lamaan baay'isuu

#### Gocha 2.2.2A



- Baay'isi
 

a	$13 \times 14 = \underline{\hspace{1cm}}$	c	$18 \times 136 = \underline{\hspace{1cm}}$	e	$52 \times 9136 = \underline{\hspace{1cm}}$
b	$25 \times 83 = \underline{\hspace{1cm}}$	d	$34 \times 1281 = \underline{\hspace{1cm}}$		
- Obbo Firdiisaan mindaa ji'atti argaturraa qarshii 250 yoo ji'a ji'aan ilmaasaaf erge, waggaatti qarshii meeqa ergaa?

## Fakkeenya 1

$$22 \times 23 = \underline{\hspace{2cm}}$$

Furmaata:-

	Mana dhibbaa	Mana kudhanii	Mana tokkee
Lakkoofsota kennaman mana isaanii eeguun irraa fi jalatti barreessuu		2 2	3 2
• 23 lakkoofsa mana tokkee 2'n baay'isuu. ( $2 \times 23 = 46$ )		4	6
• 23 lakkoofsa mana kudhanii 2'n baay'isuu ( $2 \times 23 = 46$ )	4	6	
• Baay'attoota kana mana lakkoofsaa isaanii eeganii ida'uu ✓ kan mana tokkee 6 akkuma jirutti gadi buusuu.			6
✓ mana kudhanii ida'uu ( $4 + 6 = 10$ ) 0 barreessinee 1 mana dhibbaatti dabarfanna.		0	
✓ 1 mana dhibbaairratti idaana. $1 + 4 = 5$	5		

Knaaafuu,  $23 \times 23 = 506$




Gabaabaadhumatti

$$\begin{array}{r} 23 \\ \times 22 \\ \hline 46 \\ 46 \\ \hline 506 \end{array}$$

## Fakkeenya 2

$$24 \times 45 = \underline{\hspace{2cm}}$$

Furmaata:-

	Mana kumaa	Mana dhibbaa	Mana kudhanii	Mana tokkee
Irraa fi jalatti barreessuu			4 2	5 4
• 45 tokkee 4'n baay'isuu ( $4 \times 45 = 180$ ) Mana mana isaanii eegnee barreessina		1	8	0
• 45 mana kurnani 2'n baay'isuu $2 \times 45 = 90$		9	0	
• Mana isaanii eegnee idaana. ✓ mana tokkee 0 dhaan gadi buufana				0
✓ mana kudhanii ( $8 + 0 = 8$ )			8	
✓ mana dhibbaa ( $1 + 9 = 10$ ) 0 barreessinee tokko hambifanna		0		
✓ 1 mana kumaatti barreessina	1			

## Boqonnaa 2 - Qoyyaboota arfan lakkoofsota hundaa hamma 1,000,000tti jiran i

Kanaafuu,  $24 \times 45 = 1,080$  dha.

$$\begin{array}{r} \text{Gabaabaatti} \quad 45 \\ \times 24 \\ \hline 180 \\ \underline{90} \\ 1080 \end{array}$$

### Fakkeenya 3

$$42 \times 354 = \underline{\hspace{2cm}}$$

**Furmaata:-**

Fakkeenya armaan olitti ibsame hordofuun akka armaan gadiitti hojjachuu ni dandeenya.

$$\begin{array}{r} 354 \\ \times 42 \\ \hline 708 \quad \leftarrow 2 \times 354 = 708 \\ \underline{1416} \quad \leftarrow 4 \times 354 = 1416 \\ 14868 \end{array}$$

Kanaafuu,  $42 \times 354 = 14868$

### Fakkeenya 4

$$53 \times 1253 = \underline{\hspace{2cm}}$$

**Furmaata:-**

$$\begin{array}{r} 1253 \\ \times 53 \\ \hline 3759 \quad \leftarrow 3 \times 1253 = 3759 \\ \underline{6265} \quad \leftarrow 5 \times 1253 = 6265 \\ 66409 \end{array}$$

1,253  
× 53  
3759  
6265  
66409

- Manni tokkee 9 akkuma jirutti gadi bu'a.
- $5 + 5 = 10$ , 0 barreessinee 1 hambifanna.
- $1 + 7 + 6 = 14$ , 4 barreessinee 1 hambifan.
- $1 + 3 + 2 = 6$ .
- 6 akkuma jirutti gadi buufana.

Kanaafuu,  $53 \times 1253 = 66409$

## Gilgaala 2.2.2B

1 Baay'isi

a  $2 \times 312 = \underline{\hspace{2cm}}$

f  $6 \times 111011 = \underline{\hspace{2cm}}$

k  $76 \times 1212 = \underline{\hspace{2cm}}$

b  $5 \times 10111 = \underline{\hspace{2cm}}$

g  $7 \times 111111 = \underline{\hspace{2cm}}$

l  $52 \times 359 = \underline{\hspace{2cm}}$

c  $3 \times 232323 = \underline{\hspace{2cm}}$

h  $32 \times 37 = \underline{\hspace{2cm}}$

m  $33 \times 11111 = \underline{\hspace{2cm}}$

d  $9 \times 110011 = \underline{\hspace{2cm}}$

i  $43 \times 873 = \underline{\hspace{2cm}}$

n  $99 \times 999 = \underline{\hspace{2cm}}$

e  $8 \times 100011 = \underline{\hspace{2cm}}$

j  $88 \times 924 = \underline{\hspace{2cm}}$

o  $10 \times 90909 = \underline{\hspace{2cm}}$

2 Shukkaarri kiilooqiraamiin tokko qarshii 13 yoo ta'e, kiilooqiraamiin 24 qarshii meeqa ta'a?

3 Gatiin hoolaa tokkoo qarshii 352 yoo ta'e, gatiin hoolota akkasii

a 10 qarshii meeqa ta'a?

c 36 qarshii meeqa ta'a?

b 15 qarshii meeqa ta'a?

d 76 qarshii meeqa ta'a?

Amala jijjiirraa iddoo fi amala jijjiirraa hammattuu baay'isuu keessatti.

## A Amala jijjiirraa iddoo baay'isuu keessatti

## Gocha 2.2.2B

1 Baay'isi

e  $4 \times 8 = \underline{\hspace{2cm}}$

f  $8 \times 4 = \underline{\hspace{2cm}}$

g  $24 \times 12 = \underline{\hspace{2cm}}$

h  $12 \times 24 = \underline{\hspace{2cm}}$

2 Deebii gaaffii 1<sup>ffaa</sup> irratti hundaa'uun deebisi.

- Deebiin a fi b walqixaa?

→ Hirmaattonni iddoo waljijjiiraniiruu?

- Deebiin c fi d walqixaa?

→ Hirmaattonni waljijjiiraniiruu?

Kanaafuu, hirmaattonni iddoo waljijjiiruun deebii isaa irratti dhiibbaa qabaa?

3 Bakka duwwaa guuti

a  $3 \times \square = 8 \times 3$

b  $4 \times 9 = \square \times 4$

c  $\square \times 7 = 7 \times 10$

## Hubadhu:

Lakkoofasota hundaa a fi b maraaf:

$$a \times b = b \times a.$$

Kun amala jijjiirraa iddoo kan baay'isuu jedhama

## Fakkeenya 5

a  $88 \times 72 = \underline{\hspace{2cm}}$

b  $72 \times 88 = \underline{\hspace{2cm}}$

Furmaata:-

$$\begin{array}{r} 88 \\ \times 72 \\ \hline a \quad 176 \\ \quad 616 \\ \hline \underline{\underline{6336}} \end{array}$$

$$\begin{array}{r} 72 \\ \times 88 \\ \hline b \quad 576 \\ \quad 576 \\ \hline \underline{\underline{6336}} \end{array}$$

Kanaafuu,  $88 \times 72 = 6336$

$72 \times 88 = 6336$

$88 \times 72 = 72 \times 88$  jechaadha.

### Gilgaala 2.2.2C

Kanneen armaan gadii shallagiitii wal qixa ta'uu isaanii mirkaneeffadhu.

a  $17 \times 18$  fi  $18 \times 17$

c  $35 \times 54$  fi  $54 \times 35$

e  $87 \times 98$  fi  $98 \times 87$

b  $23 \times 42$  fi  $42 \times 23$

d  $29 \times 99$  fi  $99 \times 29$

f  $73 \times 68$  fi  $68 \times 73$

### B Amala jijjiirraa hammattuu baay'isuu keessatti

#### Gocha 2.2.2C

1 Shallagi

a  $(3 \times 4) \times 6 = \underline{\hspace{2cm}}$

b  $3 \times (4 \times 6) = \underline{\hspace{2cm}}$

Jalqaba kan hammattuu keessaa hojjedhu. Firii argattee fi isa hammattuun alaa waliin baay'isuun xumuri.

Furmaatan garaagarummaa qabaa?

Kanaafuu, karaa lamaanuu hojjechuun deebii argame adda adda hin taasisu.

2 Leensaa fi Jiraan lakkoofsota hundaa 4, 8 fi 9 waliin baay'isuu barbaadanii akka armaan gadiitti hojjetani.

Leensaan:- Jalqaba 4 fi 8 walitti baay'iftee, deebii ishee 9'n baay'ifte.

Kanaafuu,  $(4 \times 8) \times 9 = 32 \times 9 = 288$  argatte.

Jiraan;- Jalqaba 8 fi 9 waliin baay'isee, deebii isaa 4'n baay'ise.

Kanaafuu,  $4 \times (8 \times 9) = 4 \times 72 = 288$  argate

Gaaffii:- Deebiin Leensaa fi Jiraa sirrii dhaa?

Karaan isaan hojjetan garaagarummaa qabaa?

## Hubadhu:

Lakkoofsota hundaa  $a$ ,  $b$  fi  $c$  maraaf

$$(a \times b) \times c = a \times (b \times c)$$

Kun amala jijjiirraa hammattuu kan baay'isuu jedhama.

## Fakkeenya 6

Kanneen hammattuu keessaa dursuun shallagi. Deebiiwwan lamaan walqixa ta'uus mirkane-effadhu.

**a**  $(14 \times 32) \times 43 = \underline{\hspace{2cm}}$

**b**  $14 \times (32 \times 43) = \underline{\hspace{2cm}}$

**Furmaata:-**

**a**  $14 \times 32 = 448$

**b**  $32 \times 43 = 1376$

$448 \times 43 = 19264$

$14 \times 1376 = 19264$

Kanaafuu,  $(14 \times 32) \times 43 = 448 \times 43$   
 $= 19264$

Kanaafuu,  $14 \times (32 \times 43) = 14 \times 1376$   
 $= 19264$

Lachuu walqixadha.

### Gilgaala 2.2.2D

Kanneen armaan gadii shallagiitii deebiin isaanii wal qixa ta'uu mirkaneeffadhu.

**a**  $(16 \times 10) \times 34$  fi  $16 \times (10 \times 34)$

**d**  $(75 \times 69) \times 98$  fi  $75 \times (69 \times 98)$

**b**  $(28 \times 72) \times 51$  fi  $28 \times (72 \times 51)$

**e**  $(74 \times 99) \times 30$  fi  $74 \times (99 \times 30)$

**c**  $(39 \times 44) \times 15$  fi  $39 \times (44 \times 15)$

## 2.3 Lakkoofsota hundaa hamma 1,000,000tti jiran lakkoofsa dijiittii tokkoo fi 10'f hiru

### Gocha 2.3A

- Barattoota daree keessan keessa jiran mee garee 2, 3, 4, 5, 6, 7, 8, 9 fi 10 tti qoodaa. Tokkoon tokkoon garee barattoota meeqa qaba?  
 Qoodinsa keessatti wal ga'uu dhabuudhaan barattoonni otoo garee keessatti hinhirmaatiin hafan jiruu? Barattoota meeqa ? Yeroo kam?
- Daree tokko keessa barattoota 51 tu jira. Deeskiin tokko barataa 3 qofa yoo qabate, barattoota daresanaa walgeesisuuf deeskii meeqa barbaachisa?
- Bidiruun tokko al-tokkotti namoota 6 laga ceesisa. Namoota baay'inni isaanii armaan gadii jiran bidiruun kun si'a meeqa deddeebi'ee ceesisa?





- |   |            |   |              |   |                 |
|---|------------|---|--------------|---|-----------------|
| a | Namoota 12 | f | Namoota 72   | k | Namoota 4800    |
| b | Namoota 18 | g | Namoota 462  | l | Namoota 12000   |
| c | Namoota 30 | h | Namoota 600  | m | Namoota 360,000 |
| d | Namoota 42 | i | Namoota 1200 | n | Namoota 999,996 |
| e | Namoota 60 | j | Namoota 3000 |   |                 |

- 4 Namichi handaaqqoo horsiisu tokko handaaqqoo 3000 qaba. Namichi kun bakka bultii handaaqqolii yoo qopheessu kutaan tokko akka handaaqqoo 8 qofaa qabatutti. Kanaafuu, namichi kun kutaa bultii handaaqqoo meeqa qopheessuu qaba?



- 5 Kan armaan gaditti argitan irraa:

$$\begin{array}{r} 96 \\ 4 \overline{)384} \\ \underline{36} \\ 24 \\ \underline{24} \\ 0 \end{array}$$

- |   |   |
|---|---|
| a | Hiramaa yookiin qoodamaan meeqa?  |
| b | Hirmaataa yookiin qoodaan meeqa?  |
| c | Ga'een meeqa?   |
| d | Hafteen meeqa?  |
| e | Tarkaanfii hiruuf fudhattan keessatti qoyyaboota kam kamitti gargaaramtani? |
| f | Hariiroo qoodamaa, qoodaa, ga'ee fi haftee ibsi.                            |

- 6 Kanneen armaan gadii shallagi.

- |   |                                  |   |                                  |   |                                    |
|---|----------------------------------|---|----------------------------------|---|------------------------------------|
| a | $755 \div 5 = \underline{\quad}$ | c | $486 \div 6 = \underline{\quad}$ | e | $8478 \div 9 = \underline{\quad}$  |
| b | $244 \div 4 = \underline{\quad}$ | d | $504 \div 7 = \underline{\quad}$ | f | $3840 \div 10 = \underline{\quad}$ |

### 2.3.1 Hiruu haftee hinqabne

#### Fakkeenya 1

Barattootni 232 atoobisii 4 yaabbatanii gara daawwannaa deemaa jiru. Atoobisootni afranuu barattoota wal-qixa akka baatan barbaadameera. Akka kanatti tokkoo tokkoon atoobisii barataa meeqa baata?

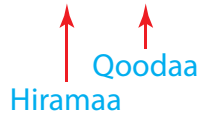


### Furmaata:-

232 bakka wal-qixaa furitti hiru barbaachisa.



Kanaafuu,  $232 \div 4 = 58$  ← Ga'ee



Kanaafuu, atoobisiin tokko barattoota 58 qabata jechaadha.

Kanuma akka armaan gadiitti hojjechuu dandeenya.

<p>Qoodaa</p> <p>Hiramaa</p>		<p>Mallattoo kanatti gargaaramuun hirmaa fi qoodaa akka karaa bitaatti mul'atetti kaa'uu.</p>
<p><math>23 \div 4</math></p>		<p>Hirmaa karaa bitaa jalqabuun 4f hiruu.</p> <p><math>2 \div 4</math> waan hindanda'amneef 23 fudhachuun 23'n 4f hirra.</p>
		<p>Ga'een 5 yoo ta'u, isas akkuma mul'atu kanatti barressina.</p>
<p><math>5 \times 4 = 20</math></p> <p><math>23 - 20 = 3</math></p>		<p>5 fi 4'n waliin baay'isuun 20'n, 23 jalatti mana isaanii eegnee barressuun walirra hir'isuu.</p>
		<p><math>3 \div 4</math> waan hindanda'amneef mana tokkoo kan jiru 2 gadi buufachuudhaan 32 godhannee 32 kana 4f hirra.</p>

## Boqonnaa 2 - Qoyyaboota arfan lakkoofsota hundaa hamma 1,000,000tti jiran i

$\begin{array}{r} 58 \\ 4 \overline{) 232} \\ \underline{20} \phantom{0} \\ 32 \phantom{0} \\ \underline{32} \\ 0 \end{array}$	$32 \div 4 = 8$	<p>32 kana 4f yoo hirru, ga'een 8 ta'a.</p> <p>8 kanas 5 cinaatti barreefanna.</p>
$\begin{array}{r} 58 \\ 4 \overline{) 232} \\ \underline{20} \phantom{0} \\ 32 \phantom{0} \\ \underline{32} \\ 00 \end{array}$	$8 \times 4 = 32$ $32 - 32 = 0$	<p>8 fi 4 walitti baay'isuun 32 yoo argannu isas 32 jalatti barreeffachuun wal irraa hir'isna.</p> <p>Caalmaan 0 waan ta'eef hirmaa cinaadhaa kan gadi bu'u kanumarratti dhaabna.</p> <p>Kanaafuu, ga'een 58 ta'a.</p>

## Fakkeenya 2

Ga'ee barbaadi.

$$4578 \div 6 = \underline{\hspace{2cm}}$$

Furmaata:-

$$\begin{array}{ccccccc} 6 \overline{) 4578} & \rightarrow & 6 \overline{) 4578} & \rightarrow & 6 \overline{) 4578} & \rightarrow & 6 \overline{) 4578} \\ & & & & \underline{42} & & \underline{42} \\ & & & & 3 & & 37 \\ & & & & & & \underline{36} \\ & & & & & & 1 \\ & & & & & & & & & & 6 \overline{) 4578} & \rightarrow & 6 \overline{) 4578} & \rightarrow & 6 \overline{) 4578} \\ & & & & \underline{42} & & \underline{42} & & \underline{42} & & \underline{42} \\ & & & & 37 & & 37 & & 37 & & 37 \\ & & & & \underline{36} & & \underline{36} & & \underline{36} & & \underline{36} \\ & & & & 1 & & 18 & & 18 & & 18 \\ & & & & & & \underline{18} & & \underline{18} & & \underline{18} \\ & & & & & & 00 & & 00 & & 00 \end{array}$$

Kanaafuu,  $4578 \div 6 = 763$

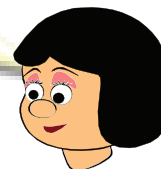
$$6 \times 763 = 4578$$



Debiin Kenya sirrii ta'uu isaa akkamiin mirkaneeffanna?

Kun immoo baay'ee salphaadha! qoodaa fi ga'ee waliin baay'isuudhan hirmaa fana wal qixa ta'uu mirkaneeffachuudha.

- $10 \div 2 = 5$
- $2 \times 5 = 10$



(Qoodaa  $\times$  Ga'ee) + haftee = Hirmaa

## Fakkeenya 3

Kanneen armaan gadii shallagii deebii isaa mirkaneeffadhu.

a  $520 \div 10 = \underline{\hspace{2cm}}$

b  $9470 \div 10 = \underline{\hspace{2cm}}$

Furmaata:-

a

$$\begin{array}{r} 52 \\ 10 \overline{) 520} \\ \underline{50} \phantom{0} \\ 20 \\ \underline{20} \\ \underline{00} \end{array}$$

b

$$\begin{array}{r} 947 \\ 10 \overline{) 9470} \\ \underline{90} \phantom{0} \\ 47 \phantom{0} \\ \underline{40} \phantom{0} \\ 70 \\ \underline{70} \\ \underline{00} \end{array}$$

Kanaafuu,

a  $520 \div 10 = 52$ , sababni isaas  $52 \times 10 = 520$  waan ta'eef

b  $9470 \div 10 = 947$ , sababni isaas  $947 \times 10 = 9470$  waan ta'eef

### Gilgaala 2.3A

1 Hiruu armaan gadii hojjedhuutii deebiin argatte sirrii ta'uu baay'isuun mirkaneeffadhu.

a  $156 \div 3 = \underline{\hspace{2cm}}$

d  $15,244 \div 4 = \underline{\hspace{2cm}}$

g  $706,326 \div 6 = \underline{\hspace{2cm}}$

b  $6,576 \div 8 = \underline{\hspace{2cm}}$

e  $24,339 \div 7 = \underline{\hspace{2cm}}$

h  $345,609 \div 9 = \underline{\hspace{2cm}}$

c  $8,320 \div 10 = \underline{\hspace{2cm}}$

f  $60,555 \div 5 = \underline{\hspace{2cm}}$

i  $793,210 \div 10 = \underline{\hspace{2cm}}$

2 Warshaan Shukkaaraa Wanjii shukkaara kuntaala 3465 oomishee daldaloota 9f wal qixa raabseera. Daldalaan tokko shukkaara hammami argata?

3 Mana barumsaa tokko keessatti gumii adda addaatti hirmaachuuf barattootni 40 kutaa 4<sup>ffaa</sup> galmaa'aniiru. Gumiin jiran baay'ina barattoota 40 kana walqixa hirmachuu qabu.

Kanaafuu, baay'inni gumii osoo:

a 2 ta'ee, tokkoo tokkoon gumii barattoota meeqa fudhata?

b 4 ta'ee, tokkoo tokkoon gumii barattoota meeqa fudhata?

c 5 ta'ee, tokkoo tokkoon gumii barattoota meeqa fudhata?

d 8 ta'ee, tokkoo tokkoon gumii barattoota meeqa fudhata?

e 10 ta'ee, tokkoo tokkoon gumii barattoota meeqa fudhata?

## 2.3.2 Hiruu haftee qabu

### Gocha 2.3B

1 Kanneen armaan gadii shallagi

a  $9 \div 2 = \underline{\quad}$

c  $22 \div 3 = \underline{\quad}$

b  $15 \div 7 = \underline{\quad}$

d  $3451 \div 10 = \underline{\quad}$

2 Burtukaana 66 ijoollee 10f meeqa meeqa isaan ga'a? Kan irraa hafu jiraa?

### Fakkeenya

Kanneen armaan gadii shallagiitii deebii argatte sirrii ta'uu mirkaneeffadhu.

a  $38593 \div 9 = \underline{\quad}$

c  $6524 \div 10 = \underline{\quad}$

b  $207419 \div 8 = \underline{\quad}$

d  $75253 \div 10 = \underline{\quad}$

Furmaata:-

a

$$\begin{array}{r} 4288 \\ 9 \overline{) 38593} \\ \underline{36} \phantom{00} \\ 25 \phantom{00} \\ \underline{18} \phantom{00} \\ 79 \phantom{00} \\ \underline{72} \phantom{00} \\ 73 \phantom{00} \\ \underline{72} \phantom{00} \\ 01 \end{array}$$

Kanaafuu,  $38593 \div 9$  ga'een 4288 hafteen 1 ta'a.

Yoo mirkaneeffannu,

$$(9 \times 4288) + 1 = 38593$$

b

$$\begin{array}{r} 25927 \\ 8 \overline{) 207419} \\ \underline{16} \phantom{00} \\ 47 \phantom{00} \\ \underline{40} \phantom{00} \\ 74 \phantom{00} \\ \underline{72} \phantom{00} \\ 21 \phantom{00} \\ \underline{16} \phantom{00} \\ 59 \phantom{00} \\ \underline{56} \phantom{00} \\ 03 \end{array}$$

Kanaafuu,  $207419 \div 8$  ga'een 25927 fi hafteen 3 ta'a.

Yoo mirkaneeffannu,

$$(8 \times 25927) + 3 = 207419$$

c

$$\begin{array}{r} 652 \\ 10 \overline{) 6524} \\ \underline{60} \phantom{00} \\ 52 \phantom{00} \\ \underline{50} \phantom{00} \\ 24 \phantom{00} \\ \underline{20} \phantom{00} \\ \underline{04} \phantom{00} \end{array}$$

Kanaafuu,  $6524 \div 10$  ga'een 652 fi hafteen 4 ta'a.

sababnisaas  $(652 \times 10) + 4 = 6524$

d

$$\begin{array}{r} 7525 \\ 10 \overline{) 75253} \\ \underline{70} \phantom{000} \\ 52 \phantom{000} \\ \underline{50} \phantom{000} \\ 25 \phantom{000} \\ \underline{20} \phantom{000} \\ 53 \phantom{000} \\ \underline{50} \phantom{000} \\ \underline{03} \phantom{000} \end{array}$$

Kanaafuu,  $75253 \div 10$  ga'een 7525 fi hafteen 3 ta'a.

sababnisaas,  $(7525 \times 10) + 3 = 75253$

## Hubadhu:

*Yommuu lakkoofsota hundaa 10'f hirru hafteen lakkoofsa mana tokkeeti.*

### Gilgaala 2.3B

Shallagiitii Furmaata argatte sirrii ta'uu mirkaneeffadhu.

a  $34 \div 3 = \underline{\quad}$

g  $46023 \div 10 = \underline{\quad}$

b  $267 \div 5 = \underline{\quad}$

h  $30056 \div 9 = \underline{\quad}$

c  $721 \div 8 = \underline{\quad}$

i  $79899 \div 10 = \underline{\quad}$

d  $6654 \div 10 = \underline{\quad}$

j  $143251 \div 6 = \underline{\quad}$

e  $2317 \div 2 = \underline{\quad}$

k  $489634 \div 7 = \underline{\quad}$

f  $8935 \div 4 = \underline{\quad}$

l  $672542 \div 10 = \underline{\quad}$