

# XISAAB

BUUGGA ARDAYGA  
FASALKA 4<sup>aad</sup>

XISAAB BUUGGA ARDAYGA Fasalka 4<sup>aad</sup>

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JUMHURIYADA FADARAALKA DIMOQRAADIGA EE ITOOBIYA  
WASAARADDA WAXBARASHADA

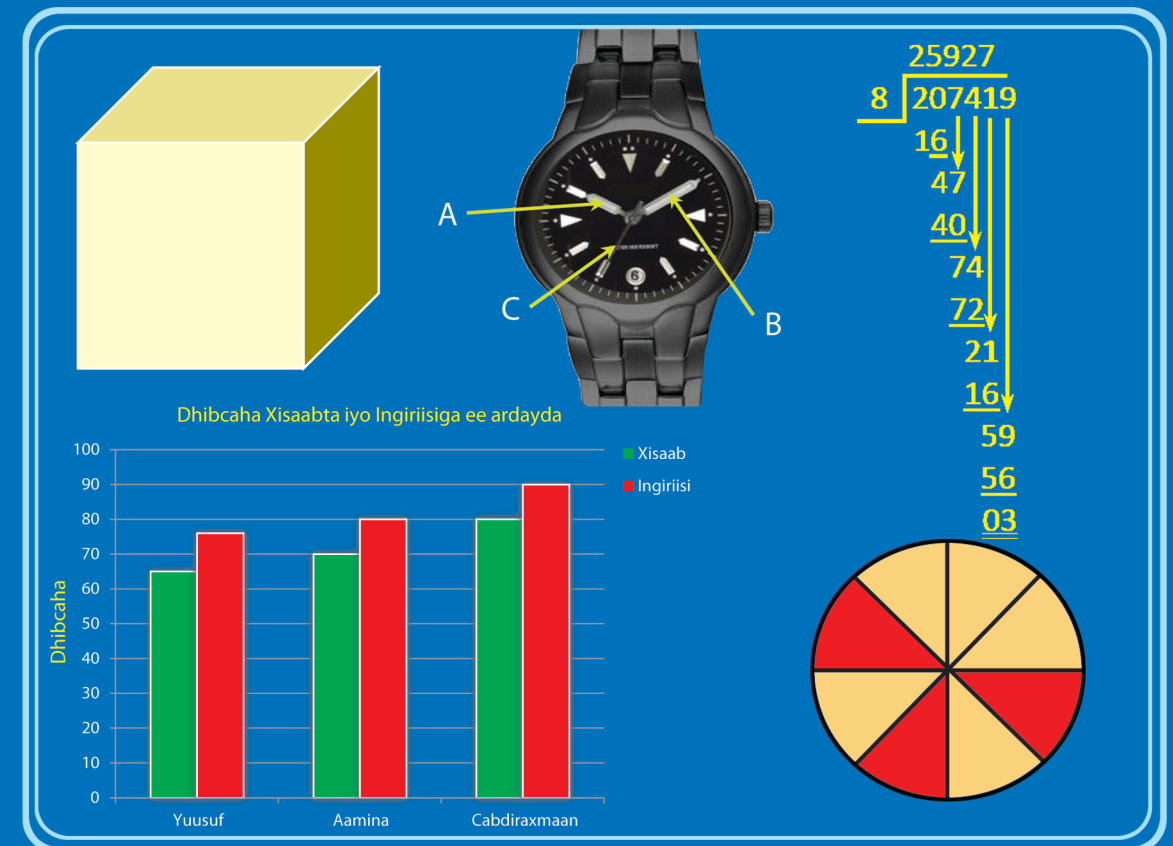
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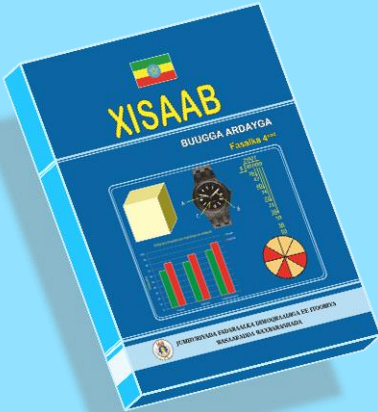
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WASAARADDA WAXBARASHADA

## Buuggan Ilaali oo daryeel



Buuggani waa hantida Dugsigiina

Daryeel si aynan waxyeelo u gaadhin ama u lumen Hoos waxa kuxusan 10 fikradood oo ah talooyin kaa caawinaya sidaad buugga u ilaa linaysid una daryeelaysid.

1. Buugga ku jaldiyeed jaldi ku haboon dhawrista sida Balaastiga waraqad adag sida magaasinada la akhristoy.
2. Markasta meeshaad buuga dhigaysaa waa in ay ahaataa meel nadiif ah oo engagan.
3. Buugga marka aad isticmaalaysid waa in ay gacmahaagu nadiif ahaadaan.
4. Waxna ha ku qorin buugga jaldigiisa ama boggaga dhaxdiisa.
5. Isticmaal waraaqad yar ama kaardi yar markaad bog calaamadaysanaysid.
6. Waligaa ha ka jeexin ama haka gooynin sawir ama bog.
7. Boggaga jeexma ku kab. Xabag ama balastar.
8. Buugga markaad dugsiga u qaadnaysid boorsada ama shayga aad ku qaadnaysid qumaati u dhaxdhig si uunan u jacdadin ama u jajabin.
9. Buugga markaad qof kale u dhibaysid si taxadar leh ugu dhiib.
10. Buugga cusub marka ugu horeysa ee aad isticmaalkiisa bilaabaysid dhiniciisa ay boggagiisa u dan beeya ay ku yaaliin u jiifi kadibna markiiba dhawr bog fur ama bannee. Marka aad bog rogaysid, Cidhifka uu ka taxan yahay gacanta kale ku yar xaji. sidaasina daryeelka jaldiga buugga ayey u wanaagsan tahay.



# XISAAB

## BUUGGA ARDAYGA

### Fasalka 4<sup>AAD</sup>

#### Qoraha

Daa'ud Aadam Cabdulaahi

#### Qiimeeyayaal

Axmed Saalax Nuur

Axmed Yuusuf Nuur

Sayid Cismaan Caateeye



**Jumhuriyada Dimoqraadiga Fadaraalka Itoobiya**  
**Wasaarada Waxbarashada**



Buugga waxa la daabacay 2002 E.C, Dajinta iyo soo saaridda buuggan waxa fuliyay wasaarada waxbarashada ee jumhuriyada Dimoqraadiga Federaalka Itoobiya mashruuca hoos yimaad ee uqaybsan kor u qoodista iyo horumarinta tayada waxbarashada Guud oo taageero ka helay hayada IDA Credit No. 4535 ET oo ah the Fast Track Initiative catalytic fund iyo dawladaha Finland, Italy, Netherland iyo United Kingdom.

© 2011 wasaarad waxbarashada ee jumhuuriyada Dimoqraadiga Federaalka Itoobiya. Xuquuqda buuggani way u dhawsan tahay. Buugga ama qayb ka mid ah buugga lama guurin karo lama daabici karo lamana baahin karo, iyada oo la adeegsanayo qalabyada eletirooniksa iyadoo ogolaansho qoraal ah aan laga haysanin wasaaradda waxbarashada ama liisan ka saamaxaya xeerka qodobka. No. 4/0/2004 ee xuquuqda daabaca oo ah maqaal ay jumhurutada Dimoqraaidiga Federaalka Itoobiya.

Wasaaradda waxbarashadu waxay u mahad naqaysaa shakhsiyaadka iyo kooxaha si toos ah iyo si dadban uga qayb galay daabicista iyo soo bixitaanka buuggan.

Kuwa haysta ogolaashaha qoraalka lookiin lagu eedeeyo inay gaf ka galeen xuquuqda buugga. Waa in ay la xidhiidhaan xafiis waynaha wasaaradda Waxbarashada ee ku taala Arata kiilo. Adiss Ababa Itoobiya.

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# Tusmada buuga

## **CUTUBKA 1** **TIROOYINKA IDIL ILAA 1,000,00 ..... 1**

<b>1.1</b>	NAKHTIIN TIROOYINKA IDIL ILAA 10,000 .....	1
<b>1.2</b>	DHUFSAHEYAASHA 1,000, 10,000 IYO 100,000.....	5
<b>1.3</b>	TIROOYINKA IDIL ILAA 1,000,000 .....	10
<b>1.4</b>	QIIMA-RUGEEDKA TIROOYINKA IDIL EE 6 - GOD AH.....	13
<b>1.5</b>	ISBARBARDHIGIDDA IYO HORSANAANTA TIROOYINKA IDIL ILAA 1,000,000 .....	14
<b>1.6</b>	U RARISTA QIYAASTA QIIMAHA UGU DHOW .....	17

## **CUTUBKA 2** **AFARTA XISAAAB FAL EE TIROOYINKA IDIL ILAA 1,000,000 ..... 23**

<b>2.1</b>	ISUGAYNTA IYO KALA GOYNATA TIROOYINKA IDIL ILAA 1,000,000.....	23
<b>2.2</b>	ISKUDHUFASHADA TIROOYINKA IDIL EE TARANTOODU KA YAR TAHAY 1,000,000 .....	34
<b>2.3</b>	TIROOYINKA IDIL ILAA 1,000,000 OO LOO QAYBINAYO TIRO IDIL OO HAL-GOD AH IYO TIRADA 10 .....	43

## **CUTUBKA 3** **JAJABYADA IYO JAJAB-TOBANLEYAASHA ..... 50**

<b>3.1</b>	JAJABYO QAYBO WALAX IDIL .....	50
<b>3.2</b>	ISBARBAR DHIGIDDA IYO HORSANAANTA JAJABYADA LEH HOOSEEYE ISKU MID AH.....	53
<b>3.3</b>	ISUGEYNTA IYO KALAGOYNATA JAJABYADA LEH HOOSEEYE ISKU MID AH .....	55
<b>3.4</b>	JAJABYADA ISUDHIGMA .....	58
<b>3.5</b>	TOBAN-DALLOOLADA, BOQOL DALLOOLADA IYO JAJAB-TOBAN LAYAASHA .....	61
<b>3.6</b>	ISBARBAR DHIGIDA IYO HORSANAANTA JAJAB-TOBANLEYAASHA .....	68
<b>3.7</b>	ISUGEYNTA IYO KALA GOYNATA JAJAB-TOBANLEYAASHA .....	71

## **CUTUBKA 4** **CABBIRAADDA**..... **75**

- 4.1** CABBIRAADDA DHERERKA.....75
- 4.2** CABBIRAADDA CULAYSKA.....83
- 4.3** CABBIRAADA MUGGA DAREERAHA.....90

## **CUTUBKA 5** **SHAXANNADA SALLAX IYO KUWA ADKAHA AH**..... **96**

- 5.1** XAGAL QUMMAN .....96
- 5.2** BARAHA; XARRIQAHA TOOSAN IYO SALLAXYADA .....99
- 5.3** WAREEGA IYO BEDKA LAYDIGA IYO LABAJIBBAARANAHA .....101
- 5.4** ADKEYAASHA FUDUD .....105

## **CUTUBKA 6** **WAQTIGA (AMMINTA)**..... **111**

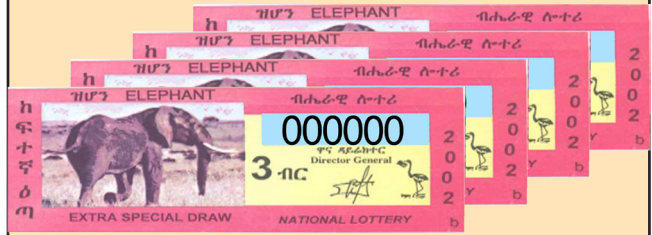
- 6.1** SAACAD, DAQIQAD IYO ILBIRIQSI.....111
- 6.2** XISAABINTA HALBEEGYADA WAQTIGA .....113
- 6.3** ISBARBARDHIGIDDA HALBEEGYADA WAQTIGA .....121

## **CUTUBKA 7** **URURINTA IYO HABAYNTA XOGAHA**..... **124**

- 7.1** DHISIDDA GARAAF LAYDIYEEDKA .....124
- 7.2** MACNAYNTA IYO SHARRAXIDDA XOGTA LAGU MUUJIYAY GARAAF LAYDIYEED .....131
- 7.3** CELCCELISKA ILAA 4 TIRO .....133

## Cutubka

# 1 aad



## TIROOYINKA IDIL ILAA 1,000,000

### Hordhac

Cutubkan waxaad ku baran doontaan tirooyinka idil ilaa 1,000,000. Hasa yeeshee marka u horaysa waxaan nakhtiimaynaa tirooyinka idil ilaa 10,000 ee aad ku soo barteen fasalka 3<sup>aad</sup>.

### 1.1 NAKHTIIN TIROOYINKA IDIL ILAA 10,000

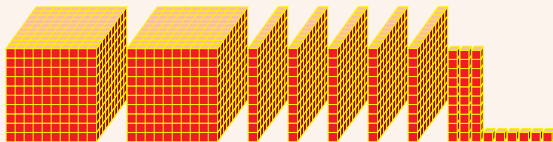
#### 1.1.1 Akhrinta iyo Qoridda tirooyinka idil ilaa 10,000

### Shaqo kooxeed

1. Astirooyinka iyo erayada tilmaamaya tiro isku mid ah isku aadiya

100	Toban kun
164	Sideed kun afar boqol iyo lixdan
1014	Toddoba kun
7000	Boqol
10,000	Hal kun toban iyo afar
8460	Halboqol lixdan iyo afar

2. Tirada 1235 sidee ayaad u akhriyeysaan? (waa la adeegsan karaa sawirada Hoos ku xusan)



Sidaas darteed, marka la akhriyo (qoraal) \_\_\_\_\_ ayay noqonaysaa

## Laylis 1.1B

- 1 Tirooyinkan kor ugu dhawaaqa, dhawaaqyadooda kadibna u qor ereyo ahaan
- |           |                           |           |                         |          |      |          |      |
|-----------|---------------------------|-----------|-------------------------|----------|------|----------|------|
| <b>b</b>  | 34 <i>Soddon iyo afar</i> | <b>t</b>  | 234                     | <b>j</b> | 1234 | <b>x</b> | 3945 |
| <b>kh</b> | 7580                      | <b>d</b>  | 9706                    | <b>r</b> | 8029 | <b>s</b> | 6001 |
| <b>sh</b> | 4000                      | <b>dh</b> | 10,000 <i>Toban kun</i> |          |      |          |      |
- 2 Weedhahan dhaxdooda tirooyinka lagu tilmaamay astiro ku qora
- b** Ardayga xasan dhibcihiisa dhammaan wadartoodu waa siddeed boqol iyo kontan: 850
- t** Itoobiya waxay u dabaal dagtay miliniyaamkii labadii kun, \_\_\_\_\_
- j** Hal dugsi ardayda dhigataa ay tahay siddeedkun, shan boqol, soddon iyo lix \_\_\_\_\_
- x** Markii ugu horeysay ee oradka weyn ee Itoobiya waxaa ka qeyb galay orad yahano ka badan Toban kun: \_\_\_\_\_
- kh** Hal cusbitaal todobaad kii hore wuxuu u adeegay oo iska daweyey dad dhan toddoba kun, saddex boqol iyo labbatan? \_\_\_\_\_
- d** Faadumo musharka ay qaadato bishii waa saddex kun, shan boqol iyo laba Birr:\_\_\_\_\_.
- r** Magaalada dhaxdeeda sagaal kun, toddoba boqol, siddeetan iyo siddeed Baabuur ah ayaa laga helaa? \_\_\_\_\_
- s** Hal magaalo dhaxdeeda afar kun iyo toddoba boqol, oo dad ah ayaa ku nool: \_\_\_\_\_



## 1.1.2 Isbarbardhigidda tirooyinka idil ilaa 10,000

*Tirooyinka laba god ama wax kabadan leh sidee baynu Isubarbardhigi karnaa?*

### Shaqo fasal 1.1B

Tirooyinka soo socda Isbarbardhiga, Hababka Isbarbardhigidda aad u adeegsateen u faah faahi saaxiibadaa.



- b** Tee ayaa wayn tirooyinkan? 610 iyo 611? \_\_\_\_\_
- t** Tee ayaa yar tirooyinkan? 355 iyo 1355? \_\_\_\_\_
- j** 7645, 6745 iyo 7654 tee ayaa ugu wayn? Tiradee baa ugu yar?

Marka aad Isbarbardhigaysaan laba tiro ee Tirooyinka idil, ha'iloobina adeegsiga tallaabooyinkan

Tallaabada 1:- Tirooyinka lagu siiyey haddii ay kala godad badan yihiin, ka godadka badan ayaa ah tirada wayn.

## Tusaale 1

- b** 250 waxay ka wayn tahay 25, waayo 250 waa tiro 3 god ah, laakiin 25 waa tiro 2 god ah. Sidaa awgeed  $250 > 25$  250 way ka wayn tahay 25)
- t** 365 waxay ka yar tahay 2365, waayo 365 waa tiro 3 god ah laakiin 2365 waa tiro 4 god ah. Sidaa awgeed,  $365 < 2365$  (loo akhriyo 365 way ka yar tahay 2365)
- j** 9999 waxay ka wayn tahay 999, waayo 9999 waa tiro 4 god ah. laakiin 999 waa tiro 3 god ah. Sidaa awgeed,  $9999 > 999$  (loo akhriyo 9999 way ka wayn tahay tirada 999)

Tallaabada 2:- Labada tiro ee la isbarbar dhigayaa haddii tirada godadkoodu ay isle'egtahay markaas waxaan isbarbar dhigaynaa godadka isku dhigma (godka kunaadka ka kunnaadka, godka boqolaadka, ka goqolaadka IWM). Sidaa darteed tirada wayni waxay noqon laba god ee isku dhigma midka wayni tirada uu ku jiro.

## Tusaale 2

7654 iyo 7645 tee baa weyn?

Godka kunaadka ee labada tiro kee baa weyn? Sidaas darteed waxaan isbarbar dhigaynaa tirada godadka kunaadka.

7654    7645 Tirada godadka kunaadku ee labada tiro way isle'eg yihrin ( $7 = 7$ )

↑  $7 = 7$  ↑

7654    7645 Tirada godadka boqlaad ku ee labada tiro way isle'eg yihiin ( $6 = 6$ )

↑  $6 = 6$  ↑

7654    7645 Tirada godadka tobnaad ku ee labada tiro way kala wayn yihiin ( $5 > 4$ )

↑  $5 > 4$  ↑

Sidaa darteed,  $7654 > 7645$

**Laylis 1.1 T**

Sanduuqyada dhaxdooda galiya (ku buuxiya) calaamadaha “>”, amaa “<” amaa “=” midda ku haboon

<b>b</b>	250 <input type="checkbox"/> 205	<b>t</b>	856 <input type="checkbox"/> 865	<b>j</b>	2,000 <input type="checkbox"/> 2,002
<b>x</b>	5,005 <input type="checkbox"/> 6,500	<b>kh</b>	7,800 <input type="checkbox"/> 8,700	<b>d</b>	5,555 <input type="checkbox"/> 6,000
<b>r</b>	9,242 <input type="checkbox"/> 9,242	<b>s</b>	9,999 <input type="checkbox"/> 8,999	<b>sh</b>	9,880 <input type="checkbox"/> 7,881
<b>dh</b>	4,444 <input type="checkbox"/> 6,666	<b>c</b>	7,335 <input type="checkbox"/> 7,335	<b>g</b>	9,999 <input type="checkbox"/> 10,000

### 1.1.3 Hoorsanaanta tirooyinka idil ilaa 10,000

Haddii aan karti u yeelano isbarbardhigidda tirooyinka idil waxaan karti u yeelaneynaa in aan tirooyinka horsanaan isugu daba taxno. Inaga oo taxa ka bilaabayna ta yar ilaa ta weyn ama intaan ka bilowno ta weyn ilaa ta yar.

#### Hawlgalka 1.2 B

**1** Idinka oo isuqeybinaya kooxo laba laba arday ka kooban, kooxkastaa ha diyaariso toban tirooyinka idil ah oo shan ka mid ahi ay yihiin kuwa 3 god ah shanta kalena kuwa 4 god ah. Kadibna kooxaha idin garab fadhiya weydiiya inay tirooyinka aad diyaariseen ay horsanaan u qoraan sidan hoos lagu tilmaamay

**b** ta yar ilaa ta weyn. **t** ta weyn ilaa ta yar.

**2** Shaxdan hoose waxay inoo sharraxaysaa tirada saddex dugsi ardaydooda.

D u g s i g a Magaciisa	T i r a d a ardayda
A	9545
B	900
C	9500

➤ Dugsigee ugu arday badan?

➤ Dugsigee ugu arday yar?

➤ Tirooyinka ardayda horsanaan u qor adiga oo kaga bilaabaya ta ugu weyn.

#### Laylis 1.1. J

**1** Tirooyinkan hoose horsanaan u qora ta weyn ilaa ta yar.

**b** 500, 750, 975 975 750 500

**t** 3254, 3244, 895

**j** 3000, 7000, 10,000

**x** 9776, 8978, 7776

**kh** 9050, 9000, 9950

## 1.2 DHUFSA NEYAASHA 1,000, 10,000 IYO 100,000

### Hawl galka 1.2B

- 1 Sawirka hoos ku sawiran waa bohool (riiq) casri ah oo badarka lagu kaydiyo. Bohosho waxay qaadaa oo lagu kaydiyaa badar ilaa 1000 kg ah.



$$1 \times 1,000 = 1,000$$

- b** 2 bohoshu oo lamid ahi imisa kiilogaraam oo badar ah ayey qaadi karaan?  
**t** 3 bohoolodoo lamid ahi imisa kiilogaraam oo badar ah ayey qaadi karaan?

### 2 Soosaara taranta isku dhufashada

- |   |   |  |
|---|---|--|
| <b>b</b> $4 \times 1000 = \underline{\quad}$  | <b>t</b> $5 \times 1000 = \underline{\quad}$  | <b>j</b> $6 \times 1000 = \underline{\quad}$ |
| <b>x</b> $7 \times 1000 = \underline{\quad}$  | <b>kh</b> $8 \times 1000 = \underline{\quad}$ | <b>d</b> $9 \times 1000 = \underline{\quad}$ |
| <b>r</b> $10 \times 1000 = \underline{\quad}$ |   |  |

Sidaa awgeed 1000, 2000, 3000, 4000, 5000, 6000, 7000, 8000, 9000 iyo 10,000 waxaa layidhaahdaa dhufsaneyaasha 1000.

#### U FIIRSADA

- 1000 marka lagu dhufto tiro kale oo ka duwan eber '0' taranku waa tiradii oo xaga hore laga raaciyay saddax eber (000)
- Dhufsaneyaasha kunka astirooyinka ku yaala godka koowaad, tobnaad, boqolaad iyo kunaad waa ebaro.

### 1.2.1 Dhufsaneyaasha 10,000

Booyad waliba waxay qaadaa 10,000 litir oo biyo ah

**1**  $1 \times 10,000 = 10,000$

**2**  $2 \times 10,000 = 20,000$

**UFIRSO**  
 $10,000 + 10,000 + 10,000 = 30,000$

**3**  $3 \times 10,000 = 30,000$

## Hawlgalka 1.2 T

Soo saara taranta

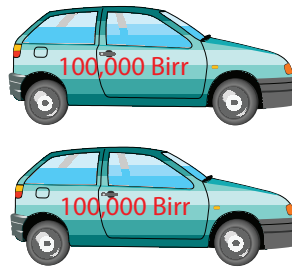
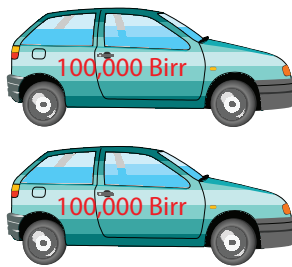
<b>b</b>	$4 \times 10,000 =$ _____	<b>x</b>	$7 \times 10,000 =$ _____	<b>r</b>	$10 \times 10,000 =$ _____
<b>t</b>	$5 \times 10,000 =$ _____	<b>kh</b>	$8 \times 10,000 =$ _____	<b>j</b>	$6 \times 10,000 =$ _____
<b>d</b>	$9 \times 10,000 =$ _____				

Sidaa awgeed 10,000, 20,000, 30,000, 40,000, 50,000, 60,000, 70,000, 80,000, 90,000 iyo 100,000 waxaa layidhaahdaa dhufsanyaasha 10,000

*Dufsanyaasha 10,000 si aadu heshid mataqaanaa waxaad samayn?*

### 1.2.2 Dhufsanyaasha 100,000

Halka Gaadhi haddii qiimihiisu yahay 100,000 birr, 4 gaadhi oo iskumid ah imisa ayay qiimahoodu noqonayaan?



Dhamaantood in ay noqdaan kuwayga 400,000 Birr miyay ku filan tahay?



$$100,000 + 100,000 + 100,000 + 100,000 = 4 \times 100,000 = \underline{400,000}$$

Sidaas awgeed 4 Gaadhi oo isku mid ah Qiimahoodu waa 400,000 birr.

400,000 waa dhufsanaha 100,000 waayo  $4 \times 100,000 = 400,000$  weeyaan

## Shaqofasal 1.2J

Soo saara taranta

<b>b</b>	$1 \times 100,000 =$ _____	<b>t</b>	$2 \times 100,000 =$ _____
<b>j</b>	$3 \times 100,000 =$ _____	<b>x</b>	$4 \times 100,000 =$ _____
<b>kh</b>	$5 \times 100,000 =$ _____	<b>d</b>	$6 \times 100,000 =$ _____
<b>r</b>	$7 \times 100,000 =$ _____	<b>s</b>	$8 \times 100,000 =$ _____
<b>sh</b>	$9 \times 100,000 =$ _____	<b>dh</b>	$10 \times 100,000 = \underline{1,000,000}$

1,000,000

Waxaa loo akhriyaa  
Hal milyan

Sidaa awgeed 100,000, 200,000, 300,000, 400,000, 500,000, 600,000, 700,000, 800,000, 900,000 iyo 1,000,000 waxa layidhaa dhufsanyaasha 100,000.

Dufsanyaasha 100,000 habka loo helo ma taqaanaa?



**Laylis 1.2B**

**1** Buuxiya shaxda

<b>Dhufsanyaasha 1000</b>	1,000				5,000					
<b>Dhufsanyaasha 10,000</b>			30,000							
<b>Dhufsanyaasha 100,000</b>									900,000	

**2** Kajawaab Weedh – Xisaabeedyadan

- b** Caasha mushaarkeedu waa 1000 Birr bishii, Imisa Birr ayay noqonayaan shanta billood?
- t** Halkii barmiil (foosto) oo biyaha lagu kaydiyo haddii ay qaaddo 1000 litir oo biyo ah, toban foosta (barmiil) imisa litir oo biyo ah ayay qaadaan?
- j** Hal bakhaar ayaa wuxuu qaadaa 10,000 kiintaal oo qamadin ah, 4 bakhaar oo lamid ah imisa kiintaal oo qamadin ah ayay qaadayaan?
- x** Haddii orod yahanka Qananiisa Baqala hal tartan, 10,000 mitir uu ordo, 6 tartan oo lamid ah imisa mitir ayuu ordi qananiisa?
- kh** Hal guri qiimihiisu haddii uu yahay 100,000 Birr markaa 3 guri oo lamid ah qiimahoodu imisa ayuu noqonayaa?

**1.2.3 Isugeynta iyo kalagoynta Dhufsanyaasha 100, 10,000 iyo 100,000**

**Tusaale 1**

Urur iskaashato beeralay ah ayaa sanadkii u horeeyay beeratay dhulbeereed bedkiisu yahay 20,000 hektaar. Sanadkii labaadna waxay beeratay dhulbeereed bedkiisu yahay 30,000 hektaar hadaba labada sanadood iskaashatadu dhamaan dhulka ay beeratay bedkiisu waa imisa?

20,000 + 30,000 = \_\_\_\_\_

<b>Shaxda qiima-rugeedku</b>					
	<b>Godka toban kunnaadka</b>	<b>Godka kunnaadka</b>	<b>Godka boqoloodka</b>	<b>God ka tobanaadku</b>	<b>Godka koo-waadka</b>
+	2	0	0	0	0
	3	0	0	0	0
	<b>5</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>



20,000	←	Biiro 20,000	
+ 30,000	←	Biiro 30,000	
<u>50,000</u>	←	Biiro <u>50,000</u>	

0 + 0 = 0

0 + 0 = 0

0 + 0 = 0

0 + 0 = 0

2 + 3 = 5

Sidaas darteed ururka ikaashatadu labada sano waxay beeratay dhulbeereed bedkiisudhan yahay 50,000 hektaar.

## Tusaale 2

Hal magaalo dhexdeeda tirada dadka ku nool waa 500,000. Dadkaas 100,000 ka mid ahi waxay galaan oo ay ku nool yihiin guryo ay iyagu iskood u leeyihiin. Dadka inta kale waxay galaan oo ay ku nool yihiin guryo kiro ah. Tirada dadka guryo kiro ah ku nooli waa imisa?

500,000	←	Lagagooye
- 100,000	←	Goosane (lagooye)
<u>400,000</u>	←	Faraq

Sidaas darteed tirada dadka guryo kiro ah ku nooli waa 400,000.

### Laylsi 1.2T

#### 1 Isugeeya

**b**  $1000 + 500 = \underline{\quad}$

**t**  $2000 + 6000 = \underline{\quad}$

**j**  $40,000 + 10,000 = \underline{\quad}$

**x**  $70,000 + 20,000 = \underline{\quad}$

**kh**  $400,000 + 50,000 = \underline{\quad}$

**d**  $600,000 + 4,000 = \underline{\quad}$

#### 2 Kalagooya

**b**  $4000 - 3000 = \underline{\quad}$

**t**  $9000 - 3000 = \underline{\quad}$

**j**  $70,000 - 20,000 = \underline{\quad}$

**x**  $80,000 - 70,000 = \underline{\quad}$

**kh**  $200,000 - 100,000 = \underline{\quad}$

**d**  $600,000 - 400,000 = \underline{\quad}$

## 1.2.4 Isbarbardhigidda Dhufsaneyaasha 1000, 10,000 iyo 100,000

### Shaqo fasal 1.2 J

Ka jawaaba idinka oo sababeynaya jawaabihiina.

**b** Kee baa weyn, 1,000 Birr, iyo 2,000 bir,

**t** Kee baa yar, 5000 Birr iyo 10,000 Birr

- j** Kee baa bug badan maktabad leh buug 7,000 ah iyo maktabada leh buug 70,000 ah?
- x** Tee baa ummad badan, magaalo ay ku nooshahay ummad 90,000 ah iyo magaalo ay ku nooshay ummad 100,000 ah?
- kh** Wabigee ugu dherer laba wabi oo dhererka midkood yahay 800,000 mitir, ka kalena dhererkiisu yahay 1000,000 mitir?

### 1.3 TIROOYINKA IDIL ILAA 1,000,000

#### 1.3.1 Isugeynta tiro idil iyo dhufsanaha 1000, 10,000 ama 100,000 Tirooyinka idil

#### Tusaale 3

Isugee  $1325 + 1000$

Tirooyinka idil markaan isugaynayno inta aan ka bilawno godka koowaadka ayaan god walba astirooyinka ku yaala qiimahooda isugeynaynaa.

Talaabo 1	Talaabo 2	Talaabo 3	Talaabo 4
Isugeeya qiimaha astirooyinka koowaadka	Isugeeya qiimaha astirooyinka tobanaadka	Isugeeya qiimaha astirooyinka boqolaadka	Isugeeya qiimaha astirooyinka kunaadka.
$\begin{array}{r} 1325 \\ + 1000 \\ \hline 5 \end{array}$	$\begin{array}{r} 1325 \\ + 1000 \\ \hline 25 \end{array}$	$\begin{array}{r} 1325 \\ + 1000 \\ \hline 325 \end{array}$	$\begin{array}{r} 1325 \\ + 1000 \\ \hline 2325 \end{array}$

#### Tusaale 4

Isugeeya:  $24016 + 70,000$

$$\begin{array}{r} 24,016 \\ + 70,000 \\ \hline 94,000 \end{array}$$

$6 + 0 = 6$   
 $1 + 0 = 1$   
 $0 + 0 = 0$   
 $4 + 0 = 4$   
 $2 + 7 = 9$

Sidaas darteed  $24,016 + 70,000 = 94,016$

## Laylis 1.3B

1 Isugeeya

$$\begin{array}{r} b + 5,000 \\ \underline{4,325} \end{array}$$

$$\begin{array}{r} t + 4,002 \\ \underline{6,000} \end{array}$$

$$\begin{array}{r} j + 9,000 \\ \underline{1,909} \end{array}$$

$$\begin{array}{r} x + 24,016 \\ \underline{30,000} \end{array}$$

$$\begin{array}{r} kh + 95,649 \\ \underline{20,000} \end{array}$$

$$\begin{array}{r} d + 40,000 \\ \underline{45,310} \end{array}$$

$$\begin{array}{r} r + 200,000 \\ \underline{32,223} \end{array}$$

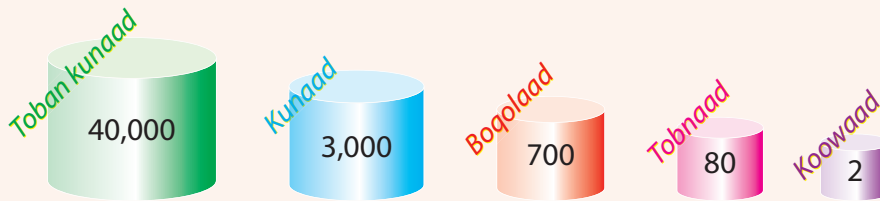
$$\begin{array}{r} s + 400,000 \\ \underline{55,678} \end{array}$$

$$\begin{array}{r} sh + 700,000 \\ \underline{4,537} \end{array}$$

## 1.3.2 Akhrinta iyo Qorista Tirooyinka Idil ilaa 1,000,000

### Hawl fasal 1.3

Idinka oo sawirka adeegsanaya, buuxiya saduuqyada; su'aalaha ka jawaaba.



1  $43,782 = \boxed{40,000} + \boxed{\phantom{000}} + \boxed{\phantom{000}} + \boxed{\phantom{000}} + \boxed{\phantom{000}}$ . Tirada 43,782 astirooyinka ay ka kooban tahay ufiirsada. Kadibna kajawaaba su'aalaha hoose.

**b** Tilmaama astirada ku taala godka koowaadka, godka tobnaadka godka boqolaadka iyo godka kunaadka.

**t** Astirada 4 godkee bay ku taalaa?

2  $43,782n = \boxed{4}$  toban kunnaad +  $\boxed{\phantom{000}}$  kunaad +  $\boxed{\phantom{000}}$  boqolaad +  $\boxed{\phantom{000}}$  tobnaad +  $\boxed{\phantom{000}}$  koowaad.

3 Idinka oo ku dhawaaqaya akhriya tirada 43,782.

4 43,782 erayo (xuruuf ahaan) ku qora.

### Tusaale 5

Tirada 235,609 sidee ayaa loo akhriyaa?

Tirada 235,609 dhaxdeeda waxa ku jirta oo ay leedahay

$$2 \text{ boqol kunaad} = 2 \times 100,000 = 200,000$$

$$3 \text{ toban kunaad} = 3 \times 10,000 = 30,000$$

Tirada 235,609 dhexdeeda ku taala godka koowood waa tee?

Godka tobnaadka se?

Godka boqolooadka se?

Godka kunnaad ka se?

Astirada 3 godkee ayey ku taalaa?

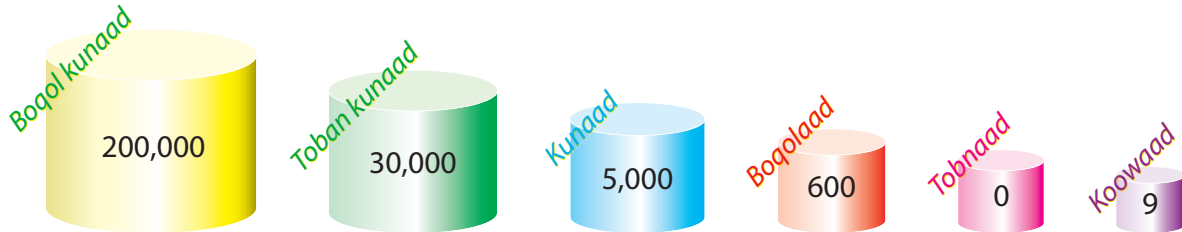
Astirada 2 godkee ayey ku taalaa?

5 kunaad =  $5 \times 1000 = 5000$

6 boqolaad =  $6 \times 100 = 600$

0 tobnaad =  $0 \times 100 = 0$  iyo

9 koowaad =  $9 \times 1 = 9$



Sidaas darteed 235, 609 waxa loo akhriyaa laba boqol sodon iyo shan kun lix boqol iyo sagaal.

**Laylis 1.3T**

- 1 Idinka oo ku dhawaaqaya akhriya
 

<b>b</b> 8795	<b>t</b> 10,604	<b>j</b> 19,590	<b>x</b> 25,805
<b>kh</b> 89,902	<b>d</b> 99,102	<b>r</b> 102,455	<b>s</b> 238,506
<b>sh</b> 472,658	<b>dh</b> 359,062	<b>c</b> 763,000	<b>g</b> 99,999
- 2 Tirooyinkan eray (Tiraab) ahaanta u qoran astatiro kuqor.
  - b** Toddoba kun sided boqol sodon iyo shan \_\_\_\_\_
  - t** Afartan iya sided kun afar boqol iyo laba \_\_\_\_\_
  - j** Afartan iyo shan kun saddex boqol toddobaatan iyo hal \_\_\_\_\_
  - x** Sagaashan iyo lix kun siddeed boqol afartan iyo afar \_\_\_\_\_
  - kh** Hal boqol iyo sodon kun saddex boqol toddobaatan iyo laba \_\_\_\_\_

**1.4 QIIMA-RUGEEDKA TIROOYINKA 6-DA**  
**GOD AH EE TIROOYINKA IDIL**

**Tusaale 1**

Tiradan 24

2 Tobnaad iyo 4 koowaad =  $20 + 4 = 24$

Shaxda Qiimo Rugeedka					
Gudka boqol kunaadka	Godka toban kunaadka	Godka kunaadka	Godka boqolaadka	Godka tobnaadka	Godka koowaadka
				2	4

24 marka la akhriyo waa labaatan iyo afar

Godka 2 qiimaha uu utaagan yahay waa

$$2 \times 10 = 20$$

Godka 3 qiimaha uu utaagan yahay waa

$$4 \times 1 = 4$$

## Tusaale 2

Imika marlabaad tirada 1234 aynu ufiirsano

1 kunnaad + 2 boqlaad + 3 tobnaad + 4 koowaad

$$1000 + 200 + 30 + 4 = 1234$$

Shaxda Qiima Rugeedka					
Godka boqol kunaadka	Godka toban kunaadka	Godka kunaadka	Godka boqolaadka	Godka tobnaadka	Godka koowaadka
		1	2	3	4

1234 marka la akhriyo waa

Kun, laba, boqol, soddon iyo afar

Tirada 1234 dhexdeeda

- Godka 1 qiimihiisu waa  $1 \times 1000 = 1000$
- Godka 2 qiimihiisu waa  $2 \times 1000 = 2000$
- Godka 3 qiimihiisu waa  $3 \times 10 = 30$
- Godka 4 qiimihiisu waa  $4 \times 1 = 4$

### Laylis 1.4

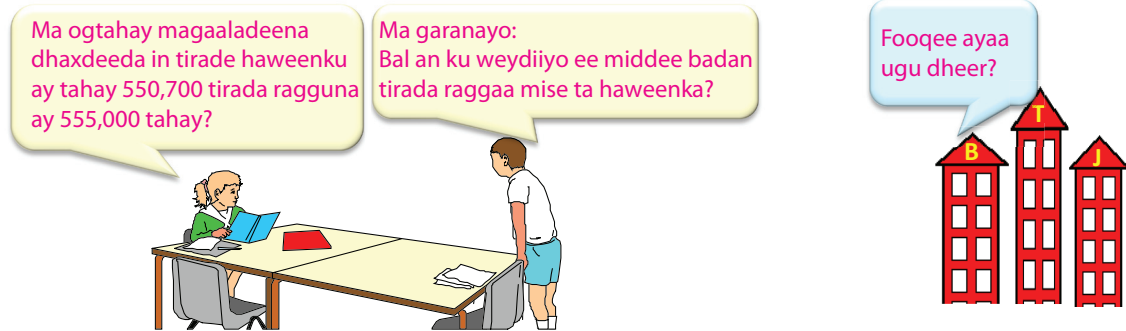
1 **Tirooyinka idil shaxda qiima rugeed ka markaad ku dul qortiin dabaded akhriya.**

Tiro idil	Godka kunnaadka	Godka kunnaadka	Godka kumaadka	Godka boqoolaadka	Godka tobnaadka	Godka koowaadka
3,582			3	5	8	2
54,629						
87,006						
850,345						
995,321						
890,405						

2 **Soo saar qiimahaastirada qalinka midabka cassanka lagu qoray.**

<b>b</b>	7,654	<b>t</b>	2,684	<b>j</b>	37,654	<b>x</b>	56,890
<b>kh</b>	345691	<b>d</b>	390,120	<b>r</b>	605,334	<b>s</b>	896,459
<b>sh</b>	890,552	<b>dh</b>	872,007				

## 1.5 ISBARBARDHIGIDDA IYO HORSANAANTA TIROOYINKA IDIL ILAA 1,000,000



### 1.5.1 Isbarbardhigidda Tirooyinka idil ilaa 1,000,000

*Ma xasuusan tihiin haatan ka hor tabaha aad isticmaasheen markaad isbarbardhigayseen tirooyinka idil?*

#### Shaqo kooxed 3

Dhinaca middigta waxaa ku yaala saddex gaadhi sawirka taargadooda. Saddexda gaadhi ka hor soconaya haddii laga dhigo ka ay tirada taargadiisu ugu yar tahay ka u dambaynayaana uu noqdo ka tirada taargadiisu ay ugu weyntahay kee baa xaga hore mari? Keebaase ugu dambayn?

- Laba tiro oo ah tirooyinka idil ka godadka (astirada) badan leh ayaa ah tirada weyn.



#### Tusaale 1

- b** 45,250 way ka weyntahay tirada 5,250 waayo 45,250 waa tiro 5 god (5 astiro) leh. Tirada 5,250 na waa tiro 4 god (4 astiro) leh.

Sidaas darteed  $45,250 > 5,250$

- t** 67,893 way ka yar tahay 123,480. Waayo 67,893 waa tiro 5-godle ah. 123,480 na waa tiro 6-godle ah.

Sidaas darteed  $67,893 < 123,480$

Labada tiro ee la isbarbar dhigayaa haddii tirada godadkoodu ay isku mid tahay.

Dhinaca bidixda inta aan ka bilawno ayaan godadka isku dhigma (beegma) qiimahooda isbarbardhigaynaa ilaa intaan helayno godad ay ku kala duwan yihiin.

## Tusaale 2

Isbarbardhiga 456,893 iyo 457,203

### Jawaab

Astirooyinka dhinaca bidixda ku taala ee isku rugta ah ayaan isbarbar dhigayna.

456893 457203 Qiimaha astirooyinka ku beegan boqol kunnaadka markaan  
 $\uparrow 4 = 4 \uparrow$  isbarbardhigno labadoodaba way isle'egyihin ( $4 = 4$ )

456893 457203 Qiimaha astirooyinka ku yaala toban kunnaadka marka la  
 $\uparrow 5 = 5 \uparrow$  isbarbardhigo hatan na labadooduba way isle'egyin ( $5 = 5$ ).

456893 457203 Qiimaha astirooyinka ku yaala kunnaadka marka la  
 $\uparrow 6 < 7 \uparrow$  isbarbardhigo way kala duwan yihiin.  $6 < 7$

Sidaas darteed,  $456,893 < 457,203$

### Laylis 1.5B

- Weedhahan hoos ku xusan kala saara idinka oo ku jawaabaya 'run' ama 'been'.
 

<b>b</b> 256 > 2765	<b>t</b> 1390 > 1399	<b>j</b> 75,300 < 78,300
---------------------	----------------------	--------------------------
- Idinka oo meelaha bannaan ku buuxinaya calaamadaha >, < ama = isbarbardhiga.
 

<b>b</b> 5600 ____ 1500	<b>t</b> 50,005 ____ 50,650	<b>j</b> 112,200 ____ 210,300
<b>x</b> 367,980 ____ 368,900	<b>kh</b> 804,572 ____ 904,569	<b>d</b> 989,765 ____ 785

## 1.5.2 Horsanaanta tirooyinka idil ilaa 1,000,000

Horsanaan u dhigista ama u qorista tirooyinka idil waxay ka dhigan tahy tirooyinka oo la is daba taxo inta laga bilaabo ta yar ilaa ta weyn ama inta laga bilaabo ta weyn ilaa ta yar. Marka tirooyinka horsanaan looqoro iyada oo laga bilaabayo ta yar ilaa ta weyn waxaan dhahaynaa waxaa loo qoray Horsanaan Fanata ah sidoo kale marka loo qoro iyadoo, laga bilaabayo ta weyn ilaa ta yar waa Horsanaan Degta ah.

## Tusaale 3

Warshad wax soosaarka caanaha ka shaqaysa ayaa todobaadkii hore soo iibsatay caano dhan 378,000 litir, todobaadkii labaadna 468,500 litir, todobaadkii saddexaadna 370,000 litriroo caana ah. Hadaba warshadu todobaad kee bay soo iibsatay caanaha ugu badan? Tirada litri-rada caanaha ee ay warshadu soo iibsatay waxaad u qortaan Horsanaan Degta ah (ta ugu weyn ilaa ta ugu tar).





**Jawaab**

Isbarbardhiga

$$468,500 > 378,000 \text{ waayo } 4 > 3$$

$$378,000 > 370,000 \text{ waayo } 8 > 0$$

Sidaas darteed,  $468,500 > 378,000 > 370,000$  sidaas awgeed 468,500, 378,000, 370,000 taas oo ah horsanaan ta ugu weyn ilaa ta ugu yar. Horsanaantan waxaa loo yaqaanaa Horsanaan Degta ah.

Warshadu caano muggiisu weyn yahay waxay iibsatay toddobaadkii labaad. Toddobaadkay caano muggiisu yar yahay iibsatay na waa toddobaadka saddexaad.

**Laylis 1.5T**

**1** Tirada weyn idinka oo ka bilaabaya horsanaan u qora ta weyn ilaa ta yar

Ta weyn ilaa ta yar

<b>b</b>	9,450	7,899	8,950	9,450	8,950	7,899
<b>t</b>	25,377	52,540	52,500			
<b>j</b>	254,452	254,542	254,425			
<b>x</b>	356,477	356,747	357,700			

**2** Tirada yar idinka oo ka bilaabaya horsanaan u qora.

Ta yar ilaa ta weyn

<b>b</b>	34,402	34,204	34,042	34,042	34,204	34,402
<b>t</b>	25,377	52,450	52,500			
<b>j</b>	52,4452	52,4542	52,4425			
<b>d</b>	909,999	989,999	999,999			

**3** Labada tiro ee la idin siiyay tirada idil (ama tirooyinka idil) ee u dhaxeeya raadsha.

<b>b</b>	105,550	105,553	<b>Jawaab</b>	<u>105,551 iyo 105,552 waa tirooyinka u dhaxeeya</u>
<b>t</b>	240,669	240,672		_____
<b>j</b>	521,743	521,745		_____
<b>x</b>	879,998	880,001		_____
<b>kh</b>	999,997	1,000,000		_____

## 1.6 U RARISTA QIYAASTA QIIMAHA UGU DHOW



### Shaqa kooxeed 4

*Weydiimahan hoose kuwa la mid ah haddii la idin weydiyo sidee ayaad uga jawaabaysiin?*

- *Ciyaarta kubbada cagta ee ka socota garoonka kubbada cagta dadka daawanaya tiradoodu waa imisa?*
- *Barri imisa saac ayaad dugsiga imanaysaa?*
- *Magaalada aad ku nooshahay tirada dadkeedu waa imisa?*
- *Fogaanta u dhaxaysa gurigiina iyo dugsigiina waa intee?*
- *Geedkaas dhererkiisu intee ayuu noqon?*
- *Dugsigiina ardayda wax ka barataa waa imsia?*

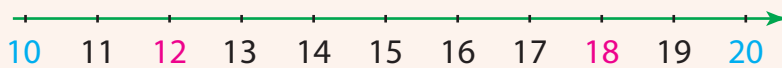
Weydimahan oo kale marka laga jawaabayo inta u badan wax runta u dhow oo ah e qiyaas ama malayn udhow xaqiiqada dhabta ah ama dhabta ah ayaa lagu jawaabaa.

### 1.6.1 U rarista tirooyinka idil tobnaadyada boqolaadyada kunnaadyada toban-kunnaadyada iyo boqol kunnaadyada

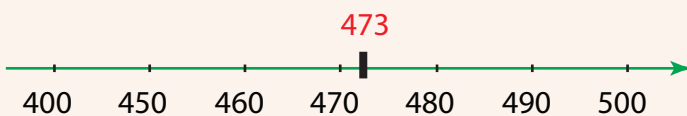
#### Hawolgal 1.6

1 12 tiradee bay u dhowdahay? 10 mise 20?

2 18 tiradee ayay u dhawdahay? 10 mise 20?



3 473 tiradee ayay u dhowdahay? 400 mise 500.



**Tiro idil marka aan doono in aan u rarno ama aan u dhawayno rugaha tirooyinka sida tobnaadyada boqolaadyada iyo wax lamid ah talaabooyinkan hoose ayaan ku hirgalinaynaa,**

**Talaabada 1<sup>aad</sup>**:- Sooc rugta loo raraayo tirada

haddii loo raraayo tobnaad sooc godka (astiraha) ku yaala rugta tobnaadka

haddii loo rarayo boqlaad sooc godka (astiraha) ku yaala rugta boqlaadka haddii

loo rarayo kunnaadka sooc sooc godka (astiraha) ku yaala rugta ka kunnaadka.

**Talaabada 2<sup>aad</sup>**:- Sooc godka (ama astiraha) dhinaca midig ka xiga rugta la rabo in loo raro (dhaweeyo).

**Talaabada 3<sup>aad</sup>**:- Godku (astirahu) haddii uu ka yar yahay 5 tirada la siiyay

kahoreeyaheeda ee ah dhufsanaha 10, ama dhufsanaha 100, ama dufsanaha

1000, kolba siday tiradu tahay ayaan u raraynaa (dhawaynaynaa). Godku

(astirahu) haddii uu 5 yahay ama uu 5 ka weyn yahay (5, 6, 7, 8 and 9) tirada la

siiyay waxaan uu raraynaa kadanbeeyaheeda ee ah dhufsanaha 10 dhufsanaha

100 kolba tiradu siday tahay.

## Tusaale 1

1 2473 uraara (udhaweeya) tobnaad

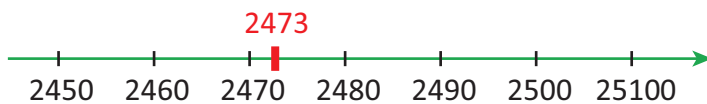
**Jawaab**

**Talaabada 1<sup>aad</sup>**:- 2473 godka (astiraha) ku yaala rugta tobnaadku waa 7)

**Talaabada 2<sup>aad</sup>**:- 2473 (rugta tobnaadka godka (astiraha) dhinaca midigta ka xigaa waa 3)

**Talaabada 3<sup>aad</sup>**:-  $3 < 5$  sidaas darteed tirada 2473 ee inala siiyay waxaan u raraynaa (u dhaweynaynaa) kahoreeyaheeda ee ah dhufsanaha 10. Taas oo ah 2470

Sidaas darteed qiimaha udhow 2473 ee tobnaadka waa 2470.



Marka la qorayo waxa loo qoraa,  $2473 \approx 2470$

“ $\approx$ ” waa calaamada ama sumadda loo adeegsado marka la qorayo qiimaha ugu dow.

## Tusaale 2

2 2473 udhaweeya (urara) kunnaad.

**Jawaab**

**Talaabada 1<sup>aad</sup>**:- 2473 (godka astiraha ku yaala rugta boqolaadka waa 4)

**Talaabada 2<sup>aad</sup>**:- 2473 (rugta boqolaadka godka astiraha dhinaca midigta ka xigaa waa 7)

**Talaabada 2<sup>aad</sup>**:-  $7 > 5$  Sidaas darteed tirada 2473 waxaan u dhaweynaynaa kadambeeyaheeda ee ah dhufsanaha 100, taaso ah tirada 2500.



Sidaas darteed  $2473 \approx 2500$

**Tusaale 3**

**3** 2473 udhaweeya (urara) boqolaad.

**Jawaab**

**Talaabada 1<sup>aad</sup>**:- 2473 (godka (astiraha) ku yaala rugta kunnaadka waa 2)

**Talaabada 2<sup>aad</sup>**:- 2473 (rugta kunnaadka godka astiraha dhinaca midigta ka xigaa waa 4)

**Talaabada 3<sup>aad</sup>**:-  $4 < 5$  Sidaas darteed tirada 2473 waxaan u dhaweynaynaa kahoreeyaheeda ee ah dhufsanaha 1000, taaso ah tirada 2000.



Sidaas darteed,  $2473 \approx 2000$ .

**Tusaale 4**

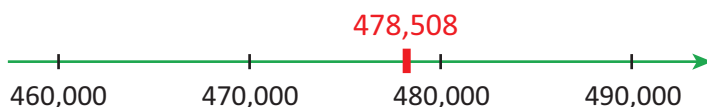
**4** Tirada 478,508 u dhaweeya toban-kunnaad.

**Jawaab**

**Talaabada 1<sup>aad</sup>**:- 478,508 (godka astiraha ku yaala rugta ka toban-kunnaadku waa 7)

**Talaabada 2<sup>aad</sup>**:- 478,508 (rugta toban-kunnaadka godka astiraha dhinaca middigta ka xigaa waa 8)

**Talaabada 3<sup>aad</sup>**:-  $8 > 5$  sidaa darteed tirada la ina siiyay waxaan udhaweeynaynaa kadambeeyaheeda ee ah dhufsanaha 10,000 taas oo ah tirada 480,000.



Sidaas darteed,  $478,508 \approx 480,000$

## Tusaale 5

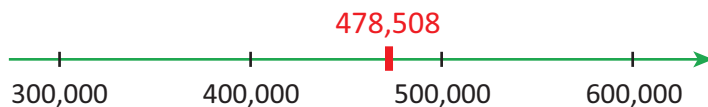
5 Tirada 478,508 u dhaweeya (u rara) boqol-kunnaad.

### Jawaab

**Talaabada 1<sup>aad</sup>**:- 478,508 (godka astiraha ku yaala rugta boqol-kunnaadka waa 4)

**Talaabada 2<sup>aad</sup>**:- 478,508 (rugta boqol-kunnaadka godka astiraha dhianca midigta ka xigaa waa 7)

**Talaabada 3<sup>aad</sup>**:-  $7 > 5$  sidaas darteed tirada la ina siiyay waxaan u dhaweynaynaa kadam-beeyaheeda ee ah dhufsanaha 100,000 taas oo ah 500,000.



Sidaas darteed,  $478,508 \approx 500,000$

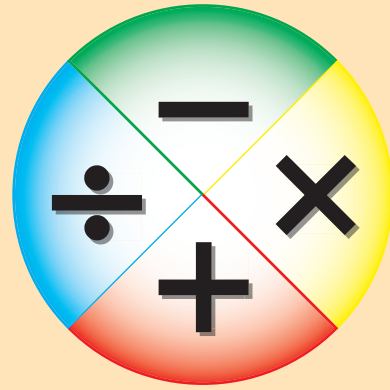
### Laylis 1.6

Idinka oo tirooyinka u dhawaynaya (u raraya) qiimaha rugta la tilmaamay shaxahan hoose buuxiya.

1	<b>Tiro idil</b>	<b>Tobnaad u dhaweeya (urara)</b>	<b>Boqolaad u dhaweeya (urara)</b>	<b>Kunnaad udhaweeya</b>		
	b	2348				
	t	56754				
	j	89987				
	x	45528				
	kh	525905				
d	933273					
2	<b>Tiro idil</b>	<b>Tobnaad udhaweeya</b>	<b>Boqolaad udhaweeya</b>	<b>Kunnaad udhaweeya</b>	<b>Toban kunnaad udhaweeya</b>	<b>Boqol-kunnaad udbawee</b>
	b	412,317				
	t	555,705				
	j	656,754				
	x	744,392				
	kh	789,986				
d	845,529					

Cutubka

# 2aad



## AFARTA XISAAB FAL EE TI-ROOYINKA IDIL ILAA 1,000,000

### 2.1 ISUGAYNTA IYO KALA GOYNTA TI-ROOYINKA IDIL EE ILAA 1,000,000

#### 2.1.1 Isugeyn

##### B Isugeyn aanaan lahayn Qaadahso

#### Hawlgal 2.1.B

Cabdilaahi waa beeroole dadaal badan. Shaqada beerta kaskaw xoolaha inta uu xanaaneeyo ayuu u iib geeyaa suuqa xoolaha. Maalin maalmaha ka mid ah wuxuu suuqa xoolaha u iib geeyay laba dibi oo uu ku iibiyey 4354 birr iyo 3325 birr. Hadaba waa imisa wadarta lacagta uu ku iibiyay?



#### Tusaale 1

Degmo ayaa tirada dadka ku nooli ay dhan tahay 21,352. Degmo kale oo deriskeeda ahna waxaa ku nool dad tiradoodu dhan tahay 8537. Hadaba labada degmo tirada dadka ku nooli guud ahaan waa imisa?

$$21,352 + 8537 = \underline{\hspace{2cm}}$$

	Godka toban kunaandka	Godka kunnadka	Godka boqolaadka	Godka toan aadka	Godka koowaadka
<ul style="list-style-type: none"> <li>• Biirooyinka ayaan joog isku hoos dhigaynaa inaga oo isku simayna astirooyinka qiima rugeedkoodu isku mid yahay. Astiraha qiima rugeedka koowaadka waxa lala simi oo la hoos dhigi astiraha qiima rugeedka koowaadka ku yaala astiraha qiima rugeedka tobnaadka ka qiima rugeedka tobnaadka. Sidookale astiraha qiima rugeedka boqolaadka waxaa la hoos dhigi ka qiimu rugeedka boqolaadka IWM.</li> </ul>	2	1	3	5	2
<ul style="list-style-type: none"> <li>• Marka uhoraysa isugee qiimaha astirooyinka ku yaala koowaadka.</li> <li>• Marka xiga isugee qiimaha astirooyinka tobnaadka</li> <li>• Kadibna isugee qiimaha astirooyinka boqolaadka</li> <li>• Marka afraad isugee qiimaha astirooyinka kunnadka</li> <li>• Ugu danbaysta godka toban kunnaadka 2 da ku taala malaha biiro loo geeyo (biiradeedu waa '0') sidaas darteed hoos inta loo soo dajiyo ayaa godkeedada lagu qori.</li> </ul>	2	9	8	8	9
	2 + 0 =2	1 + 8 =9	3 + 5 =8	5 + 3 =8	2 + 7 =9

$$\begin{array}{r}
 21352 \\
 + 8537 \\
 \hline
 29889 \\
 \hline
 \end{array}$$

Sidaa daraaded labada degmo waxaa ku nool dad tiradoodu dhan tahay 29889.

**XASUUSNAADA:**

- *Tirooyinka idil ee kor ku xusan marka aan isugeynayno Godadka Qiima ... Rugeedka intaan adeegsano oo aan si fidsan u qorno ayaan sidan soo socota isugu geynaynaa.*

**Biiro** →  $21,352 = 20,000 + 1,000 + 300 + 50 + 2$   
**Biiro** →  $8,537 = \underline{\hspace{2cm}} + 8,000 + 500 + 30 + 7$   
**Biiro** →  $29,889 = 20,000 + 9,000 + 800 + 80 + 9$

## Tusaale 2

Garoonka diyaaradaha ee Itoobiya ayaa waxaa ka duulay rakaab dhan 146,326 qof Mudo hal sano ah. Sanadkii ku xigay waxaa ka duulay 152,672 rakaab. Labada sanadood tirada rakaabka ka duulay waa imisa.



146,326

152,672

298,998 ←  $6 + 2 = 8$

↑  $2 + 7 = 9$

↑  $3 + 6 = 9$

↑  $6 + 2 = 8$

↑  $4 + 5 = 9$

↑  $1 + 1 = 2$

Sidaas darteed labada sano waxaa garoonka diyaaradaha ee Itoobiya ka duulay rakaab dhan 298,998

## Shaqo koo xeed

Xamdi iyo Cabdi ayaa la weydiiyay in ay isugeeyaan 125 iyo 2343. Waxayna uga shaqeeyeen sidan soo socota.

$\begin{array}{r} 125 \\ \text{Xamdi } 2343 \\ \hline 2468 \end{array}$	$\begin{array}{r} 2343 \\ \text{Cabdi } 125 \\ \hline 3593 \end{array}$
---	---

Labadoodu habka ay uga shaqeeyeen midkee sax ah? Midkee se khalad ah? Falanqeeya.

## LAYLIIS 2.1.1. B

Soo saar wadarta suu'aalaha soo socda idinka oo joog isugu hoos dhigayaa tirooyinka

**b**  $356 + 122$

**t**  $2341 + 528$

**j**  $25,154 + 12,323$

**x**  $35,651 + 3234$

**kh**  $654,325 + 215,102$

**d**  $701,405 + 16,291$

**r**  $358,672 + 305$

**s**  $768,121 + 33$

## Xeerka (astaanta) kala Hormarinta ee Isugeynta

### Hawlgal 2.1 t

Isugee

**1** **b**  $53 + 12 = \underline{\hspace{2cm}}$

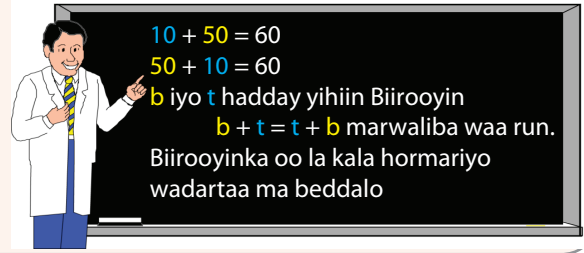
**j**  $374 + 123 = \underline{\hspace{2cm}}$

**t**  $12 + 53 = \underline{\hspace{2cm}}$

**x**  $123 + 374 = \underline{\hspace{2cm}}$

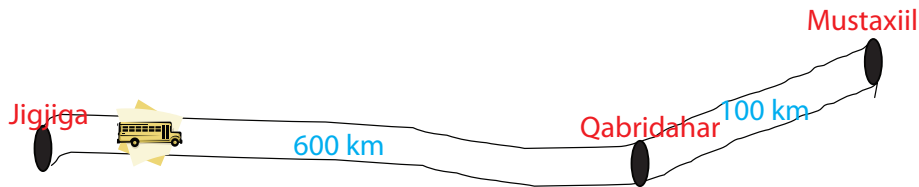


- 2 Jawaabta suu'aasha 1.b iyo jawaabta 1.t) ma isku midbaa ? Biirooyinkuse meelaha ay ku kala yaalii ni ma isku midbaa?
- 3 Jawaabta suu'aasha 1.J iyo 1.x ma isku midbaa? Biirooyinku se meelaha ay ku kala yaaliini ma isku midbaa?
- 4 Biirooyinka oo la kala hormariyaa wadarta miyey saamaysaa?



### Tusaale 3

Fooganta u dhaxaysa Jig-jiga ilaa Qabridahar waa 600km, Qabridahar ilaa Mustaxiil waa 100km. Gaadhi bas ah ayaa intuu ka soo dhaqaaqay Jigijiga ayuu soo maray Qabridahar kadib waxaa u galay Mustaxiil. Bas kale na Mustaxiil intuu ka dhaqaaqay uu Qabridahar dhaafay ayuu Jigjiga galay. Raadi fooganta guud ee bas walba socday



#### Jawaab:-

Baski ugu horeeyay waxaa u socday  $600\text{km} + 100\text{km} = 700\text{km}$ .

Baski labad waxaa u socday  $100\text{km} + 600\text{km} = 700\text{km}$  sidaa daradeed xeerka (Astanta) kala hormarinta ee isugayntana  $600\text{km} + 100\text{km} = 100\text{km} + 600\text{km}$  madama ay sidan tahay hadaba fooganta ay socdeen labada bas waa 700km.

### Layliis 2.1.1.T

- 1 Isugee tirooyinka dabadeedna xaqiiji wadartoodu in ay isle'eg yihiin
  - b**  $30 + 20$  iyo  $20 + 30$
  - t**  $120 + 40$  iyo  $40 + 120$
  - j**  $3222 + 4542$  iyo  $4542 + 3222$
  - x**  $70605 + 8024$  iyo  $8024 + 70605$
- 2 Sanduuqa madhan tirade ku haboon ku buuxi
  - b**  $80 + 40 = 40 + \square$                       **t**  $\square + 355 = 355 + 422$
  - j**  $3542 + 6127 = \square + 3542$                       **x**  $42357 + \square = 25012 + 2357$

## Xeerka (astaanta) Hormogelinta isugeynta

### Hawlgal 2.1.1 J

Fatxiya iyo Wacays ayaa waxaa la waydiiyay in ay isugeeyaan 50,20 iyo 80. Waxay na isugeynta uga shaqeeyeen sidan

*Fadxiya:* marka hore 50 iyo 20 inaty isu gaysay ayay wadarta usoo baxday 80 ugaysay

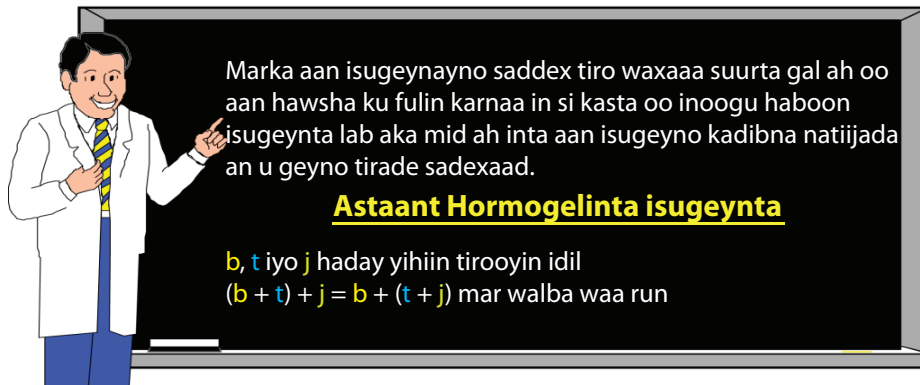
Sidaa darteed waxay hesahay  $(50 + 20) + 80 = 150$

*Wacays:* marka hore 20 iyo 80 ayuu isugeeyay wadarta soo baxday ayuu 50 u geeyay

Sidaa darteed wuxuu helay  $(20 + 80) + 50 = 150$

#### Su'aal

- Sax matahay wadarta labada arday?
- Isku mid matahay habka ay uga shaqeeyeen labada arday? Maxay kukala duwan yihiin oo idiin muuqda?



## Tusaale 4

Isu gee  $1252 + 314 + 3420$

#### Jawaab

$$\begin{aligned} (1252 + 314) + 3420 \\ = 1566 + 3420 \\ = 4986 \end{aligned}$$

$$\begin{aligned} \text{ama} \quad 1252 + (314 + 3420) \\ = 1252 + (3734) \\ = 4986 \end{aligned}$$

### Laylis 2.1.1.j

1 Isugee tirooyinka idil ee hoos ku qoran

**b**  $(60 + 420) + 1342$

**t**  $2435 + 2020 + 141$

**j**  $2652 + (31245 + 2120)$

**x**  $3541 + 12303 + 654,152$

2 Buuxi sanduuqyada madhan

**b**  $(30 + 40) + 50 = 30 + (40 + 50)$

**t**  $152 + (343 + 111) = (\square + 343) + 111$

**j**  $(5346 + 1220) + = 5346 + (1220 + 3444)$

**x**  $(\square + 13218) + 4005 = 1111 + (13218 + 4005)$

3 Iskaashato xooladhaqato ah ayaa leh 1252 wan, 2115 riyo iyo 3320 digaagadood. Hadaba waa imisa wadartoodu?

**T Isugayn qaadasho leh**

**Hawlgal 2.1.x**

Raadi wadarta  $24 + 58 =$  \_\_\_\_\_

**Tusaale 5**

Raadi wadarta  $43 + 29 =$  \_\_\_\_\_

$\begin{array}{r} 43 \\ + 29 \\ \hline 72 \end{array}$	<ul style="list-style-type: none"> <li>• Marka hore waxaa la isu geyn qiimaha astirooyinka ku yaala koowaadka <math>(3 + 9) = 12)</math></li> </ul>
	<ul style="list-style-type: none"> <li>• 12 madaama ay 10 ka wayn tahay 2 da intaan ku qorno godka koowaadka ayaan 1ka maskaxda intaan ku haysano ayaan u gaynaynaa tirooyinka ku yaala godka tobnaaka</li> </ul>
	<ul style="list-style-type: none"> <li>• Isu gee qiimaha astirooyinka ku yaala tobnaadka iyo 1 kii aan maskaxda ku haysanay <math>(1 + 4 + 2 = 7)</math></li> </ul>

Sidaa daraadeed  $43 + 29 = 72$

**Tusaale 6**

Raadi wadarta  $765 + 298 =$  \_\_\_\_\_

$\begin{array}{r} 765 \\ + 298 \\ \hline 1063 \end{array}$	<ul style="list-style-type: none"> <li>• <math>(5 + 8 = 13)</math> 3 ayaa lagu qorayaa godka koowaadka 1na inta la qaado ayaa loo geyn tirooyinka ku yaala godka tobnaadka</li> </ul>
	<ul style="list-style-type: none"> <li>• <math>(1 + 6 + 9 = 16)</math> 6 da waxaan ku qoraynaa godka tobnaadka 1na waxaan u gaynaynaa tirooyinka ku yaala godka boqlaadka</li> </ul>
	<ul style="list-style-type: none"> <li>• <math>(1 + 7 + 2 = 10)</math> 0 waxaan ku qoraynaa godka boqlaadka 1 na godka kunnaadka.</li> </ul>

Sidaa daradeed wadartu waa 1063

## Tusaale 7

**Raadi wadarta**  $3765 + 972 + 867 + 1624 =$  \_\_\_\_\_

3765	•	(5 + 2 + 7 + 4 = 18) 8 da inta an ku qorno godka koowaadka ayaan 1 ka u geynaynaa 4 ta astiro ku yaala godka tobnaadka.
+ 972	•	(1 + 6 + 7 + 6 + 2 = 22) 1 da inta an ku qorno ayana 2 da quadaynaa oo aan u gaynaynaa tirooyika ku yaala godka boqloadka
867	•	(2 + 7 + 9 + 8 + 6 = 32) 2 waxaan ku qoraynaa godka boqoladka 3 d a na intaan qadno ayaan ugaynaynaa tirooyinka godka kunnaadka.
1624	•	(3 + 3 + 1 = 7) 7 da waxaynu ku qoraynaa godka kunnaadka.
<u>7228</u>		

Sidaa daraadeed jawaabtu waxay noqonaysaa 7228.

### Laylis 2.1.1.x

**1** Raadi wadarta

**b**  $857 + 1246$

**f**  $7654 + 6349$

**j**  $15288 + 28376$

**x**  $765 + 972 + 857$

**kh**  $3455 + 2649 + 1056$

**d**  $25088 + 6327 + 184,682 + 25$

**2** Raadi xalka weedh-xisaabeedyada.

**b** Dugsi ardayda ka dhigata oo xubin ka ah naadiga ilaalada deegaanka ayaa khudaar ay beereen inta ay iibiyeen 325 Birr waxay ka heleen basasha 625 Birr badhadhaha 432 Birr na waxay ka heleen saladhka. Guud ahaan dhakhliga ay khudaarta ka heleen waa imisa Birr?

**f** Beeralay ayaa waxa u beeray 2540 iniinyo oo liin macaan ah 1752 iniinyo oo canbe ah 978 iniinyo oo liin dhanaan ah, hadaba waa imisa wadarta iniinyaha ee u beroolahani beeray ?

**j** Urur iskaashatao ah oo ka shaqaysa tacab soo saarka caanaha 3 todbaad oo isku xigta caana ha ay iibisay inta litir u ahaa ayaa sidan soo socota loo day waaniyay.

**Todabaadkii ugu horeeyay** 12780 litir

**Todobaadkii labaad** 8455 litir

**Todobaadkii sadexaad** 11756 litir

Waa imisa litir dhamaan canaha ay iibisay sadexda todobaad?

**x** Itoobiya laba biloodoo isku xigta bunka ay dibada u dhoofisay kiilogiraam ahaan waa sidan. Bishii u horaysay waxay dhoofisay 85450 kg. Bishii labad na 98720 kg ayay dhoofisay. Labada bilood imisa kiilogiraam oo bun ah ayay dhoofisay?



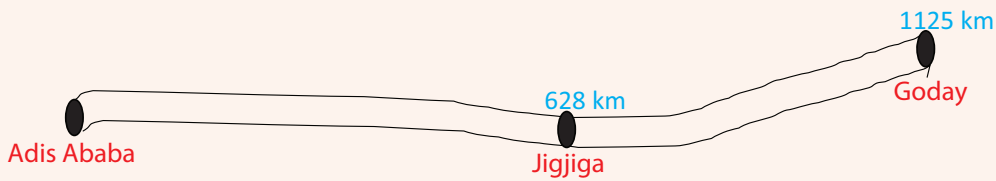
**kh** Doorosho ka dhacday degmo ayaa dadkii qaatay kaarkii dorashada 23546 oo qof ayaa codeeyay, 1879 oo qofna ma codayn hadaba waa imisa dhamaan dadkii is diwaan galiyay ee kaarka doorashada qaadatay?

### 2.1.2 Kalagoynta

#### B Kalagoynta aan amaahasho lahayn

#### Hawlgal 2.1.2 b

Adis ababa ilaa Goday waxay isu jiraan fogaan ah 1125 km. Adis Ababa ilaa Jigjiga na waxay isu jiraan fogaan dhan 628 km. Sidaas darteed Jigjiga ilaa Goday waa imisa km fogaanta u dhaxaysa?



## Tusaale 1

Dugsi ayaa waxaa lagu beeray 4325 geed. Hase ahaatee 3215 oo geed ayaa ka qabsatay oo kortay. Geedaha inta aanan bixiin ee engegtay waa imisa?

$$4325 - 3215 =$$

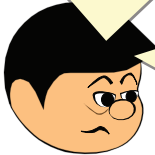


	Godka kunnaad	Godka boqolaad	Godka tobnaad	Godka koowaad
• Tirooyinka idil ee inala siiyay ka ugu weyn (laga gooyaha) ayaan marka hore qoraynaa. Kadibna la gooyaha ayaan ku hoos qoraynaa anaga oo astiro kasta ku qorayna godka ku haboon.				
• Marka hore tirooyinka godka koowaad ku yaala ayaan kale gooyaynaa	4	3	2	5
• Marka xigta tirooyinka godka tobnaadka ku yaala ayaan kala gooyaynaa	-3	2	1	5
• Kadib waxaan kala gooyaynaa tirooyinka godka boqolaadka ku yaala	1	1	1	0
• Ugu danbayn tirooyinka godka kunnaadka ku yaala ayaan kala gooyaynaa.	4 - 3	3 - 2	2 - 1	5 - 5
	= 1	= 1	= 1	= 0

Sidaa darteed,  $4,325$  → Laga gooye  
 $3,215$  → La gooye      Geedaha aan beermin waa 1110  
 $1,110$  → Faraqa

1 Ma taqaanaa sida loo hubiyo ama loo xaqiijiyo in jawaabteenu ay sax tahay iyo in kale?

2 Haa! Wadarta faraaqa an helnay iyo la gooyaha haddii ay le'egtahay laga gooyaha jawaabteenu waay sax



3 Haaheey!  
 Faraq + la gooye (goosane) = Lagagooye  
 $1110 + 3215 = 4325$



## Tusaale 2

Raadsha faraaqa

$$\begin{array}{r} 86257 \\ - 3143 \\ \hline 83114 \end{array}$$

- $7 - 3 = 4$
- $5 - 4 = 1$
- $2 - 1 = 1$
- $6 - 3 = 3$
- $8 - 0 = 8$

Sidaas darteed faraaqa waa 83114

Hubin      Faraq + Goosane (lagooye) = Laga gooye  
 $83114 + 3143 = 86257$  waa run.

## Shaqo kooxeed

Idinkoo kursigiina fadhiya oo ka wada doodaya ka jawaaba.

Kala goyntu astaanta (xeerka) kala hormarinta miyay leedahay mise ma laha?

Jawaabtiina tusaale idinkoo ku xoojinayaa ka jawaaba?

### Laylis 2.1.2.B

Joog inta ad isugu hoos qortiin kalagooya. jawaabtiina idinkoo isugayn adeegsnaya hubiya.

**b**     $698 - 35$

**t**     $4887 - 31$

**j**     $6327 - 6227$

**x**     $23554 - 3231$

**kh**     $25,724 - 2,5301$

**d**     $867958 - 23746$

## T Kalagoynta amaahasho leh

### Hawlgal 2.1.2 t

Soo soar faraaqa       $93 - 48 =$  \_\_\_\_\_

## Tusaale 2

Soo soar faraaqa

**b**  $82 - 35$                       **t**  $723 - 254$

**Jawaab**

**b** 
$$\begin{array}{r} 82 \\ -35 \\ \hline 47 \end{array} \quad \longrightarrow \quad \begin{array}{r} 80 + 2 \\ -30 + 5 \\ \hline \end{array} \quad \longrightarrow \quad \begin{array}{r} 70 + 12 \\ -30 + 5 \\ \hline 40 + 7 = 47 \end{array}$$

Habkaas macnaheedu waxay ka dhigan tahay sidan soo socota.

$\begin{array}{r} 82 \\ -35 \\ \hline 47 \end{array}$	<ul style="list-style-type: none"> <li>Tirooyinka godka koowaad (2 – 5 lama kalagoyñ karo). Sidaas darteed godka tobnaadka 8 da ku taala ayaa 1 toban ka amaa hanaynaa oo an u gaynaynaa 2 da ku taala koowaadka. Taas oo noqon 12.</li> <li>Kadibna 12 intaan 5 ka goyno ayaan faraaqa oo ah 7 ku hoos qoraynaa godka koowaadka (12 – 5 = 7)</li> <li>Ugu danbaysta tirooyinka ku yaala godka tobnaadka ayaan kala goynaynaa. 8 da tobano maadaama ay 1 toban amaahisay 2 da god-rugeedka koowaadka. Waxa u hadhay 7. Sidaas darteed 7 – 3 = 4</li> </ul>
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**t** 
$$\begin{array}{r} 723 \\ -254 \\ \hline 469 \end{array} \quad \longrightarrow \quad \begin{array}{r} 700 + 20 + 3 \\ -200 + 50 + 4 \\ \hline \end{array} \quad \longrightarrow \quad \begin{array}{r} 700 + 10 + 13 \\ -200 + 50 + 4 \\ \hline \end{array} \quad \longrightarrow \quad \begin{array}{r} 600 + 110 + 13 \\ -200 + 50 + 4 \\ \hline 400 + 60 + 9 = 469 \end{array}$$

Sidaasi waxay ka dhigan tahay sida hoostan loogu falanqeyyay.

$\begin{array}{r} 723 \\ -254 \\ \hline 469 \end{array}$	<ul style="list-style-type: none"> <li>Tirooyinka godka koowaad lama kala goyn karo (3 – 4 lama karo) sidaas darteed godka tobnaadka 2 da toban ee ku jirta ayaan 1 toban inta aan ka amaahano ayana 3 da u gaynay naa si aan uga dhigno 13</li> <li>Kadib 13 waxaan ka goynaynaa 4 (13 – 4 = 9)</li> <li>Kadib tirooyinka godka tobnaadka ayaan kala goynaynaa. 2 da toban ee godka tobnaadka ku jirtaa maadaama ay 1 toban amaahisay 3 da godka koowaad waxaa u hadahy 1 toban. Imika 1 toban 5 toban laga ma goyn karo. Sidaas darted godka boqolaad 7 da boqol ee ku jirta ayaan 1 boqol ka amaahanaynaa oo aan u gaynaynaa 1 ka toban siaan ugadhigno 11 (11 tobano)</li> <li>Kadib 11 ayaan 5 ka goynaynaa (11 – 5 = 6)</li> <li>Ugu danbaysta tirooyinka godka boqolaad ayaan kalagoyñaynaa. 7 da boqol waxay 1 boqol amaahisay 1 ka godka tobanada ku taala. Sidaas awogeed waxa u hadhay 6.</li> </ul> <p>Sidaas darteed 6 – 2 = 4, sidaas darteed 723 – 254 = 469</p>
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## Laylis 2.1.2T

1 Kalagoo tirooyinka idil ee soo socda. Hubi jawaabtana adigoo Isugayn adeegsanaya

<b>b</b>	363 -75	<b>f</b>	4239 -1345	<b>j</b>	63926 -12987
<b>x</b>	96851 -3993	<b>kh</b>	962,154 -28,367	<b>d</b>	352,673 -143,075

2 Raadsha xalka weedh-xisaabeedyadan hoose

- b** Dugsi ay dhigtan arday dhan 1530. 700 arday ayaa xubno ka ah naadiyo kala duduwan oo dugsiga ka tirada ardayda ee aan xubin ka ahayn naadiyada mid kood an waa imisa?
- f** Buurta raas-dhaashan ayaa dhererkeedu yahay 4,620 mitir dhererka buurta baatuuna waa 4,307 mitir. Haddaba buurta raas-dhaashan imisa mitir ayay ka dheer tahay buurta Baatu?
- j** Dagmo miyiga ku taala tirade dadka ku nooli waxay dhan tahay 27,155. Tirada dumarka ee dagmadu haddii ay tahay 14,866 tirada raga ee dagmadu waa imisa?
- x** Ganacsade ayaa bishi hore talafiishin kusoo iibsaday 7500 oo Birr Dabadeedna wuxuu ku iibayay 8100 Birr. Hadaba imisa ayuu macaash ka helay ganac sadahaan.
- kh** Sanaadki hore ayaa hal kiiil ardaydii qadatay imtixaankii laga qudayay fasalkii 8<sup>aad</sup> ayaa tiraada ardayda ku dhacday (aan gudbin ) imtixaan ayaa waxay ahaayen 2346 arday. Ardayda ku baastayna (ka gudubtay) waxay ahaayeen markaa waa imisa tiraada guud ee ardayda imtixaanka ka qayb qatay?
- d** Hal baabuur oo kuwa xamuulka ah ayaa miisaankiisu kisa yahay 63500 kg. Kadib markii rar buuxa la saaray, wuxuu miisaan kiisu noqday 64200 kg. Hadaba waa imisa miisaanka rarka (culayaska) lasaray baabuurka?
- r** Garoon kubada cagta lagu cayaaro ayaa waxaa u qadaa 84325 qof oo tageerayaal ah garoon kale oo yar ayaa isna waxaa u qadaa 55,680 qof. Haddaba garoonka weyni imisaqof ayuu dheer yahay garoonka yar?



## 2.2 ISKUDHUFASHADA TIROOYINKA IDIL EE TARANTOODU KA YAR TAHAY 1,000,000

Casharadiinii xisaabta ee fasalka saddexaad waxaad ku soo barten sida tiro hal-god ah loogu dhufto tiro kale. Iminka fasalkan casharkiina xisaabta kadib markaad nakhtiintiin kudhufashada tiro hal god ah waxaad baran doontaan habka tiro loogu dhufto tiro laba god ah.

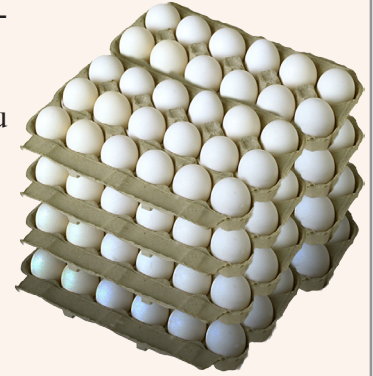


## 2.2.1 Isku dhufashada tiro hal-god ah iyo tirooyinka idil ee tarantoodu ay kayar tahay 1,000,000

### Hawlgal 2.2b

Su'aalahan soo socda ka jawaaba idinka oo ardayda aad isgarab fadhidaan wada jir u falanqaynaya.

Sida sawirka ka muuqata saxanka ukunta (ugaxda) lagu qaadaa wuxuu qaadaa 30 xabo oo ukun ah.



- b** Laba saxan imisa xabo oo ukun ah ayey qaadi karaan?
- t** Afar saxan imisa xabo oo ukun ah ayey qaadi karaan?
- j** Todoba saxan imisa xabo oo ukun ah ayey qaadi karaan?
- x** Sagaal saxan imisa xabo oo ukun ah ayey qaadi karaan?

### B Isku dhufashada aanan qaadasho lahayn

## Tusaale 3

Isku dhufo  $3 \times 2312$

	God-rugeedka kunnaadka	God-rugeedka boqoloodka	God-rugeedka tobnaadka	God-rugeedka koowaadka	
	2	3	1	2	← Badiye (isir)
				3	← Badiye (isir)
	6	9	3	6	← Taran
➤ $3 \times 2 = 6$					
➤ $3 \times 1 = 3$					
➤ $3 \times 3 = 9$					
➤ $3 \times 2 = 6$					

## Tusaale 4

Isku dhufo  $4 \times 20,112$

$$\begin{array}{r}
 20112 \\
 \times 4 \\
 \hline
 80448
 \end{array}$$

$4 \times 2 = 8$   
 $4 \times 1 = 4$   
 $4 \times 1 = 4$   
 $4 \times 0 = 0$   
 $4 \times 2 = 8$

Hawsha iskudhufashada waxaa laga bilaabaa god-rugeedka koowaadka.



Sidaas darteed  $4 \times 20,112 = 80448$

### Laylis 2.2.B

Isku dhufo

**b**  $2 \times 111$

**t**  $3 \times 232$

**j**  $4 \times 1101$

**x**  $2 \times 2222$

**kh**  $3 \times 3333$

**d**  $5 \times 10101$

**r**  $6 \times 10001$

**s**  $7 \times 11011$

**sh**  $8 \times 11111$

### T Isku dhufashada qaadashada leh

## Tusaale 5

Isku dhufo  $5 \times 432$

Habka looga shaqeeyo

$$\begin{array}{r}
 432 \\
 \times 5 \\
 \hline
 2,160
 \end{array}$$

Godka (astatiraha) god-rugeedka koowaad kaasi oo ah 2 da ku dhufo 5 ( $5 \times 2 = 10$ ) kadib na '0' ta god-rugeedka koowaadka ku qor 1 ka na ugee taranta god-rugeedka tobnaadka eek u xigta.

3 da ku taala god-rugeedka tobbaadka ku dhufo 5 ka dibna taranta ugee 1 kii ad haysatay (soo qaaday)  $5 \times 3 + 1 = 16$ , 6 da god-rugeedka tobnaadka ku qor. 1 ka na taranta god-rugeedka boqolaadka ugee.

Godka god-rugeedka boqolaadka ee ah 4 ku dhufo 5 oo taranta ugee 1 kii ad soo qaaday  $5 \times 4 + 1 = 21$ . 1ka god-rugeedka boqolaadka 2 da na god-rugeedka kunnaadka ku qor

## Tusaale 6

Raadi taranta  $4 \times 4563$

4,563  
× 4  
-----  
18,252

- $4 \times 3 = 12$ , 2 da ku hoos qor god-rugeedka koowaadka 1 ka na qaad oo ugee taranta god-rugeedka tobnaadka ee ku xigta.
- $4 \times 6 + 1 = 25$ . 5 ta ku hoos qor god-rugeedka tobnaadka 2 da na qaad oo ugee taranta god-rugeedka boqolaadka ee xigta.
- $4 \times 5 + 2 = 22$  da ku hoos qor god-rugeedka boqolaad ka 2 da kale na u gee taranta god-rugeedka kunnaadka eek u xigta.
- $4 \times 4 + 2 = 18$ , 8 da ku hoos qor god-rugeedka kunnaadka 1 ka na god-rugeedka toban kunnaadka.

Sidaas darteed  $4 \times 4563 = 18252$

### Laylis 2.2.t

1 Soo saar taranta.

**b**  $4 \times 223$

**t**  $5 \times 344$

**j**  $6 \times 2354$

**x**  $7 \times 3076$

**kh**  $7 \times 5006$

**d**  $8 \times 6735$

**r**  $8 \times 88889$

**s**  $9 \times 5454$

2 Qiimaha 1ka kiintaal ee qamadinka haddii uu yahay 1,250 Birr markaa 7 kiintaal si loo iibsado imisa birr ayaa loo baahnaan?

3 Macalimad dugsi wax kabarta ayaa waxa u musharkeeda bishiiba yahay 1835 Birr macalimadu 9 bilood imisa ayey heli kartaa?



## 2.2.2 Isku dhufashada tiro laba god ah iyo Tirooyinka idil oo Tarantoodu ka yar tahay 1,000,000

### B Isku dhufashada aanan lahay qaadasho

#### Hawgal 2.2 t

Hal darsan oo buug waxaa ku jirta 12 hal oo buugaag ah 31 darsan imisa ha loo buug ayaa ku jirta?

### Tusaale 7

Soo saara taranta

**b**  $24 \times 12$

**t**  $120 \times 24$

**j**  $3201 \times 32$

## Jawaab

b  $24 \times 12$

Godka 100	Godka 10	Godka 1
	2	4
	1	2
	4	8
2	4	
2	8	8

1 Tirooyinka joog isku hoos qora idinka oo isku hoos qoraya tirooyinka isku god ah.

2 24 ka astirada godka koowaadka ku taala oo ah 2 kudhufta natiijada godka koowaadka intaad ka bilawdiin dhinaca bidixda midwaliba godkiisa ku qora.

$$2 \times 24 = 48$$

3 24 ka astirada godka tobnaadka ku yaala oo ah 1 ku dhufta oo taranka inta ad godka tobnaadka ka bilawdiin midwaliba godka ku qora.

4 Godadka taranada midkasta godka uu ku yaalo joog isugugee ya.

- 8 da godka koowaadka ku taalaa malaha biiro loo geeyo hoos u dajiya.
- Godka tobnaadka kuwa ku yaala isugeeya
- $4 + 4 = 8$
- Godka boqolaaka 2 da ku taala malaha biiro loo geeyo hoos oo dajiya.

Sidaa daradeed,

$$\begin{array}{r}
 24 \\
 \times 12 \\
 \hline
 48 \\
 24 \\
 \hline
 288
 \end{array}$$

←  $2 \times 24 = 48$   
←  $1 \times 24 = 24$

†  $120 \times 24$

Godka 1000	Godka 100	Godka 10	Godka 1
	1	2	0
		2	4
	4	8	0
2	4	0	
2	8	8	0

Sidaa daradeed,

$$\begin{array}{r}
 120 \\
 \times 24 \\
 \hline
 480 \\
 240 \\
 \hline
 2880
 \end{array}$$

←  $4 \times 120 = 480$   
←  $2 \times 120 = 240$

j  $3201 \times 32$

Godka 100,000	Godka 10,000	Godka 1000	Godka 100	Godka 10	Godka 1
		3	2	0	1
				3	2
		6	4	0	2
	9	6	0	3	
1	0	2	4	3	2

Sidaa daradeed,

$$\begin{array}{r}
 3201 \\
 \times 32 \\
 \hline
 6402 \\
 9603 \\
 \hline
 102432
 \end{array}$$

←  $2 \times 3201 = 6402$   
←  $3 \times 3201 = 9603$

**Laylis 2.2.J**

- 1 Kashaqeeya iskudhufashadan hoose.
 

<b>b</b> $33 \times 21$	<b>t</b> $99 \times 11$	<b>j</b> $123 \times 32$
<b>x</b> $402 \times 12$	<b>kh</b> $3201 \times 43$	<b>d</b> $4422 \times 12$
<b>r</b> $20133 \times 31$	<b>s</b> $82789 \times 11$	<b>sh</b> $13024 \times 22$
- 2 Geedo bun ah ayaa marka la talaalayay hal saf lagu talaalay 24 geed oo bun ah. 50 saf imisa geed oo bun ah ayaa lagu talaali?
- 3 Waqtigan an joogno xaalada suuqa ee iibka xoolaha haddii hal wan qiimihiisa lagu qiyaaso 350 Birr. Qiimaha 11 wanan la mid ah imisa ayey noqon?

**T Iskudhufashada leh qaadasho**

**Tusaale 8**

- |                         |                          |                           |
|-------------------------|--------------------------|---------------------------|
| <b>b</b> $23 \times 45$ | <b>t</b> $354 \times 34$ | <b>j</b> $2345 \times 32$ |
|-------------------------|--------------------------|---------------------------|

**Jawaab**

**b**  $23 \times 45$

Habka looga shaqeeyo

Godka 1000	Godka 100	Godka 10	Godka 1
		4	5
		2	3
	1	3	5
	9	0	
1	0	3	5

- 1  $3 \times 45 = 135$   
135 ka godka koowaadka kabilaaba oo tiro kasta god lagu muujiyay shaxda qiima-rugeedka ku dul qora.
- 2  $2 \times 45 = 90$   
90 ka godka tobnaadka ka bilaaha oo ku qora shaxda qiima rugeedka.
- 3 Taranta sida la isugu hoos qoray idinka oo tix galinaya isugeeya.

$$\begin{array}{r}
 135 \\
 \underline{90} \\
 1035
 \end{array}$$

Sidaas daraadeed,

$$\begin{array}{r}
 45 \\
 \times 23 \\
 \hline
 135 \leftarrow 3 \times 45 = 135 \\
 \underline{90} \leftarrow 2 \times 45 = 90 \\
 \hline
 1035
 \end{array}$$

$$\begin{array}{r}
 \text{f} \quad 354 \times 34 \\
 \quad 354 \\
 \quad \times 34 \\
 \hline
 \quad 1416 \leftarrow 4 \times 354 = 1416 \\
 \quad 1062 \leftarrow 3 \times 354 = 1062 \\
 \hline
 \underline{12036}
 \end{array}$$

$$\begin{array}{r}
 \text{j} \quad 2345 \times 32 \\
 \quad 2345 \\
 \quad \times 32 \\
 \hline
 \quad 4690 \leftarrow 2 \times 2345 = 4690 \\
 \quad 7035 \leftarrow 3 \times 2345 = 7035 \\
 \hline
 \underline{75040}
 \end{array}$$

### Shaq kooxed 2.2 b

Su'aalahan hoose idinka oo isku kooxaynaya laba laba falanqeeya oo ka jawaaba.

- 1 Buugiina xisaabta ee daabacan imisa bogg ayuu lee yahay?
- 2 Laba buugaagiina xisaabta ee daabacani imisa bogg ayey lee yihiin?
- 3 Sheega lix buug oo xisaabta daabacan ahi inta bog ee ay yeelan karaan?
- 4 15 buug oo xisaabta daabacan ahi imisa bog ayey yeelan karaan?

### Laylis 2.2.X

Iskudhufo kuwan soo socda.

- |   |           |                  |          |                  |          |                   |          |                  |
|---|-----------|------------------|----------|------------------|----------|-------------------|----------|------------------|
| 1 | <b>b</b>  | $23 \times 45$   | <b>f</b> | $42 \times 65$   | <b>j</b> | $34 \times 232$   | <b>x</b> | $45 \times 563$  |
|   | <b>kh</b> | $22 \times 3415$ | <b>d</b> | $44 \times 4444$ | <b>r</b> | $32 \times 12783$ | <b>s</b> | $56 \times 8989$ |

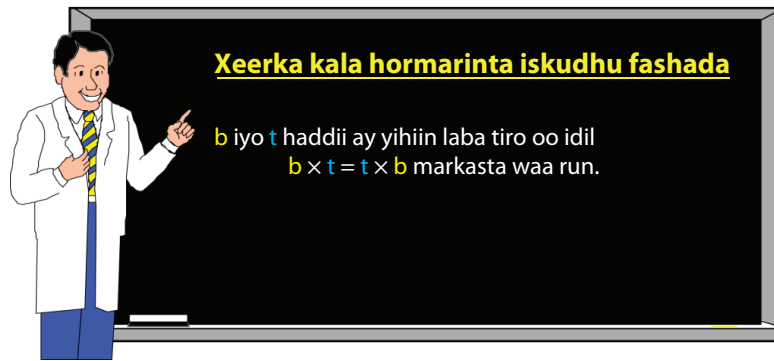
- 2 Halka kilo ee sonkorta ah haddii uu yahay 14 Birr waa imisa qiimaha 247 kiilo sonkor ah?
- 3 Warshad ayaa tirada shaqalaheedu yahay 2340. Warshadu shaqaalakasta waxay siisaa 27 Birr maalintiiba. Haddaba warshadu maalintiiba dhamaan shaqaalaha imisa Birr ayay siisaa?

## 2.2.3 Xeerarka (astaamaha) kala hormarinta iyo Hormogelinta Isku dhufashada

### B Xeerka (astaanta) kala hormarinta Iskudhufashada

Idinka oo koox koox uga wada tasha naya su'aashan ka jawaaba. Shaqadee ayaa Birr baddan lagu heli? Shaqo mudo 30 maalmood laga shaqaynayo oo mushaar maalmeedkeedu yahay 80 Birr mise shaqo 80 maalmood laga shaqaynayo oo mushaar maalmeedkeedu yahay 30 Birr?

Jawaabtiina idinka oo sababta sheegaya soo bandhiga oo sharraxa.



### Laylis 2.2 kh

- 1 Qora ama siiya saddex tusaalooyin oo mujinaya xeerka kala homarinta iskudhufashada.
- 2 Xisaabfalada isku dhufashada ee la idin siiyaay ka shaqeeya oo hubiya in tarantoodu ay isle'eg yihiin iyo in kale.
 

<b>b</b> $11 \times 22$ iyo $22 \times 11$	<b>t</b> $23 \times 34$ iyo $34 \times 23$
<b>j</b> $33 \times 44$ iyo $44 \times 33$	<b>x</b> $54 \times 45$ iyo $45 \times 54$
- 3 Sanduuqyada madhan tirada ku haboon ku buuxiya.
 

<b>b</b> $43 \times 55 = 55 \times \square$	<b>t</b> $\square \times 445 = 445 \times 26$
<b>j</b> $1000 \times 58 = 58 \times \square$	<b>x</b> $74 \times \square = 456 \times 74$

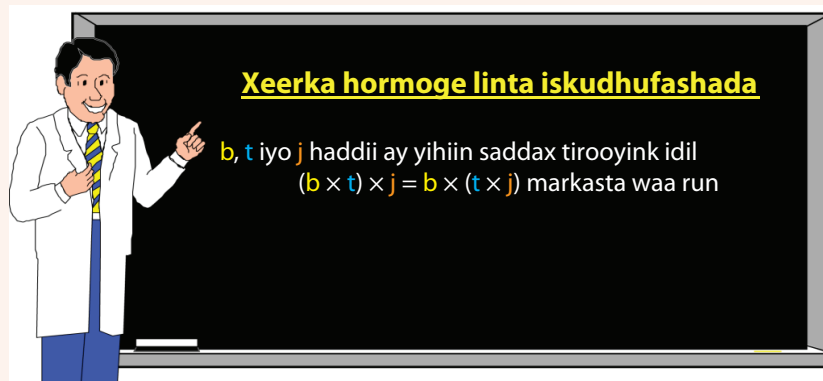
### T Xeerka Hormogelinta Iskudhufashada

#### Hawlgal 2.2 x

Marka hore qawska (biraaketka) dhaxdeeda falka iskudhufashada ka shaqeeya idinka oo kooxoo laba laba ah labadiina midkiin 'b' ha ka shaqeeyo kiina kale na 't' ha ka shaqeeyo.

Ardayga B.  $(5 \times 12) \times 7 = \underline{\hspace{2cm}}$  ardayga T  $5 \times (12 \times 7) = \underline{\hspace{2cm}}$

Isbar barbardhiga jawaabtiina maxaad ka aragteen ama ku fahanteen kadib markaad ka shaqayseen falalkan iskudhufashada?



## Tusaale 9

Idinka oo marka hore isku dhufanaya kuwa qawska ku jira ka shaqeeya falka isku dhufashad.

$$\text{b} \quad (7 \times 6) \times 8 \qquad \text{t} \quad 7 \times (6 \times 8)$$

**Jawaab**

$$\text{b} \quad (7 \times 6) \times 8 = 42 \times 8 = 336 \qquad \text{t} \quad 7 \times (6 \times 8) = 7 \times 48 = 336$$

$$\text{Sidaas darteed, } 7 \times (6 \times 8) = 8 \times (6 \times 8)$$

## Tusaale 8

Soo saara taranta su'aalaha hoose ee (b) iyo (t) idinka oo marka hore ka shaqaynaya iskudhufashada qawska ku jirta. Kadibna isharbar dhiga labada taran.

$$\text{b} \quad (25 \times 33) \times 42 \qquad \text{t} \quad 24 \times (33 \times 42)$$

**Jawaab**

Marka hore waxaan ka shaqaynaynaa isku dhufashada qawska ku jirta sida hoostan lagu muujiyey. Ufiirso sida labada la isu garab wado.

$\begin{array}{r} \text{b} \quad 33 \\ \times 25 \\ \hline 165 \\ 66 \\ \hline 825 \\ 825 \\ 42 \\ \hline 1650 \\ 3300 \\ \hline 34650 \end{array}$	←	1	Kashaqaynta wareegeeda 1 <sup>aad</sup>	→	$\begin{array}{r} \text{t} \quad 42 \\ \times 33 \\ \hline 126 \\ 126 \\ \hline 1386 \\ 1386 \\ 25 \\ \hline 6930 \\ 2772 \\ \hline 34650 \end{array}$
$\begin{array}{r} \hline 825 \\ 825 \\ 42 \\ \hline 1650 \\ 3300 \\ \hline 34650 \end{array}$	←	2	Ka sha qaynta wareegeeda 2 <sup>aad</sup>	→	$\begin{array}{r} \hline 1386 \\ 1386 \\ 25 \\ \hline 6930 \\ 2772 \\ \hline 34650 \end{array}$

### Laylis 2.2 d

- 1 Qor saddex tusaale oo muujinaya xeerka hormogelinta iskudhufashada.
- 2 Ka jawaaba idinka oo ku jawaabaya 'run' ama 'been'
 

$\text{b} \quad 8 \times (15 \times 23) = (8 \times 15) \times 23$	$\text{t} \quad 11 \times (135 \times 555) = (11 \times 135) \times 555$
$\text{j} \quad (3450 \times 44) \times 2366 = 354 \times (44 \times 2366)$	$\text{x} \quad (6 \times 76) \times 8845 = 6 \times (76 \times 8845)$
- 3 Idinka oo aynaad ka shaqaynin xisaabfalka isku dhufashada, meelaha bannaan ku buuxiya tirada ku haboon.
 

$\text{b} \quad (8 \times 7) \times 9 = \square \times (7 \times 9)$	$\text{t} \quad 15 \times \square \times 27 = 15 \times (55 \times 27)$
$\text{j} \quad 64 \times 11 \times \square = (64 \times 11) \times 70$	$\text{x} \quad (54 \times 23) \times 31 = 54 \times 23 \times \square$
$\text{kh} \quad \square \times 19 \times 51 = 14 \times (19 \times 51)$	



## 2.3 TIROOYINKA IDIL ILAA 1,000,000 oo LOO QAYBINAYO TIRO IDIL OO HAL-GOD AH IYO TIRADA 10

### 2.3.1 Isuqaybinta tirooyinka idil ilaa 1,000,000 iyo tiro hal-god ah

#### Hawlgalka 2.3b

Dooni ayaa markiiba 6 caruur ah wabi ka talaabin karta. Hadaba doonidu imisa jeer ayey ku talaabrn kartaa tirada caruurta ee hoostan lagu muujiyey?

Jawaabta sidaad u hesheen saaxiibadiin u cadeeya (sharraxa)

<b>b</b>	12 caruur	<b>t</b>	18 caruur	<b>j</b>	24 caruur
<b>x</b>	30 caruur	<b>kh</b>	54 caruur	<b>d</b>	60 caruur

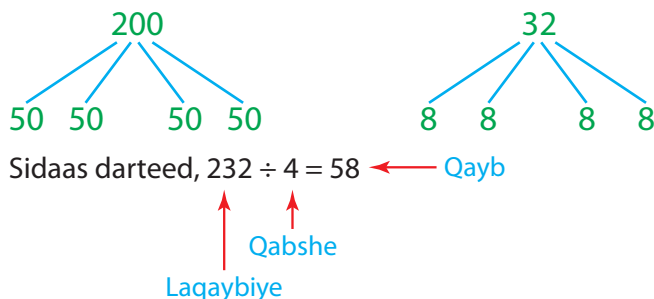
#### Tusaale 1

232 arday ayaa 4 basas inta lagu qaaday booqasho u baxday. Baskiiwalba waxaa lagu meeleeyay arday tiradoodu ay isle'eg tahay. Hadaba hal bas dhaxdiis imisa arday ah ayaa saaran?




#### Jawaab

Waa inaan 232 arday ukala qayqaybinaa 4 meelood oo isle'eg.



Weedh-xisaabedkan isuqaybinta ee dusha ina la siiyay sida hoostan loogu tafatiray ayaan uga shaqayn karnaa.

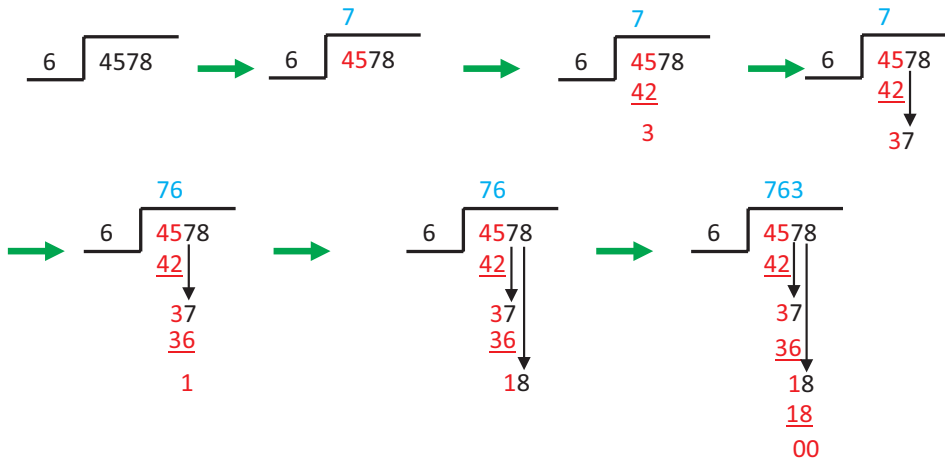
$4 \overline{) 232}$		Calaamadan anago oo isticmaalayna ayaan laqaybshaha iyo qaybshaha meelahooda aan dhigaynaa sida bidixda lagu muujiyay.
$4 \overline{) 232}$	$23 \div 4 = 5$ hadhaa 3	Godadka (astatirayaasha) laqaybshaha bidixada inta aan kaga bilawono ayaan 4 ta u qaybinaynaa. 2 ÷ 4 lama karayo sidaas darteed 3 da ayaan raacinaynaa oo aan 23 ka u qaybinaynaa 4ta
$4 \overline{) 232} \begin{array}{r} 5 \\ \hline \end{array}$		5 ta xariiqa dushiisa intaan ku qorno ayaan herkan hadhaaga aan la kulano iskadhaafaynaa.
$4 \overline{) 232} \begin{array}{r} 5 \\ \hline 20 \\ \hline 3 \end{array}$	$5 \times 4 = 20$ $23 - 20 = 3$	5 ta iyo 4 ta intaan iskudhufano ayaan taranka oo ah 20 ku hoos qoraynaa 23 anaga oo isku hoos qorayna astirooyinka isku godka ah kadibna 23 ayaan ka goynoynaa 20.
$4 \overline{) 232} \begin{array}{r} 5 \\ \hline 20 \\ \hline 32 \end{array}$		3 ÷ 4 lama karayo. Sidaas darteed godka koowaadka astiraha ku jira laqaybshaha ee ah 2 ayaan hoos intaan u soo dajhino 3 da garab dhigaynaa si aan uga dhigno 32.
$4 \overline{) 232} \begin{array}{r} 58 \\ \hline 20 \\ \hline 32 \end{array}$	$32 \div 4 = 8$	32 marka loo qaybbiyo 4 qaytaoo ah 8 waxaan garab dhigaynaa 5ta
$4 \overline{) 232} \begin{array}{r} 58 \\ \hline 20 \\ \hline 32 \\ \hline 32 \\ \hline 00 \\ \hline \end{array}$	$8 \times 4 = 32$ $32 - 32 = 0$	8 da ayaan 4 intaan ku dhufano ayaan taranka 32 ku hoos qoraynaa dabadeed na intaan kalagoyno ayaan hadhaaga oo ah eber 0 qoroynaan waxanan jawaabtu noqon 58

## Tusaale 2

Raadi qaybta

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

**Jawaab**



Sidaas darteed,  $4578 \div 6 = 763$



Jawaabtaaan helnay in ay sax tahay iyo in kale side ayaanu hubin karnaa?

Aad ayay u dhibyar tahay. Qaybshaha iyo qaybta ayaan isku dhufanayna. Tarankan intaan u geyneyna hadhaa haddii u jiro ayaan fiirinaynaa in natijadu ay le'eg tahay laqaybshaha

- $10 \div 2 = 5$   
 $2 \times 5 = 10$
- $10 \div 3 = 3$  hadhaa 1  
 $(3 \times 3) + 1 = 10$



$(\text{Qaybshe} \times \text{Qayb}) + \text{Hadhaa} = \text{Laqaybshe}$

Sidaa daraadeed,  $4578 \div 6 = 763$  hadday tahay

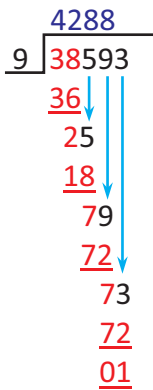
$6 \times 763 = 4578$

### Tusaale 3

Ka sheeqe

$38593 \div 9 = \underline{\hspace{2cm}}$

**Jawaab**



Sidaa awgeed  $38593 \div 9 = 4288$  hadhaa 1

Hubin

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

**Laylis 2.3.B**

- 1** Ka shaqee kuwan soo socda
- b**  $396 \div 4 = \underline{\quad}$       **f**  $925 \div 5 = \underline{\quad}$       **j**  $3460 \div 8 = \underline{\quad}$   
**x**  $6571 \div 8 = \underline{\quad}$       **kh**  $73464 \div 6 = \underline{\quad}$       **d**  $24339 \div 7 = \underline{\quad}$   
**r**  $153468 \div 9 = \underline{\quad}$       **s**  $345609 \div 9 = \underline{\quad}$
- 2** Warshada wanji oo soo saarta sonkorta waxay soo saartay 3465 kiintaal oo sonkor ah. Warshadu sonkorta ay soosaartay waxay si isle'eg ugu qaybisay 9 wakaaladood oo sonkorta oo gaybiya tacah qaybiya. Hadaba imisa kiintaal ayey wakaalad kasta heleysaa?
- 3** Xafiiska wakaalada biyaha ayaa xaafad dadka ku nool. Si u guryahooda qasabadaha biyaha ugu galiyo wuxuu qoday luuq uu qasabadaha ku aaso taas oo dhererkiisu yahay 2346 mitir. Qasabadii walba dhererkeedu haddii u 6 mitir yahay imisa qasabadood ayay wakaaladu u baahantahay in ay ku aasto luuqa ay u qoday?

## 2.3.2 Isuqaybinta tirooyinka Idil ilaa 1,000,000 iyo tirada 10

### B Isuqaybinta aanan hadhaa lahayn

#### Hawlgalka 2.3t

- 1** Raadi qaybta
- b**  $10 \div 1 = \square$       **f**  $20 \div 10 = \square$       **j**  $30 \div 10 = \square$   
**x**  $40 \div 10 = \square$       **kh**  $50 \div 10 = \square$       **d**  $60 \div 10 = \square$   
**r**  $70 \div 10 = \square$       **s**  $80 \div 10 = \square$       **sh**  $90 \div 10 = \square$   
**dh**  $100 \div 10 = \square$
- 2** Qaybta iyo la qaybshaha u fiirsada. Qaybta (jawaabta) si dag-dag ah ama wado qardo jeex ah inaad ku hesho is badal nooc ee ah ayaa loo bahan yahay in lagu sameeyo la qaybiyaha

## Tusaale 4

Ka shaqee

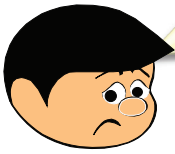
**b**  $200 \div 10 = \underline{\quad}$       **f**  $520 \div 10 = \underline{\quad}$       **j**  $9470 \div 10 = \underline{\quad}$

Sidaa daraadeed,

**b**  $200 \div 10 = 20$  sababto ah  $20 \times 10 = 200$

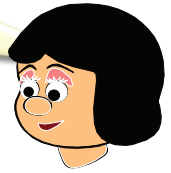
**f**  $520 \div 10 = 52$  sababto ah  $52 \times 10 = 520$

**j**  $9470 \div 10 = 947$  sababto ah  $947 \times 10 = 9470$



Tiro idil oo godka ku yaala god-rugeedkeedu koowaad u yahay 0 marka 10 loo qaybiyo ma garan karta qaybtu inta ay noqon?

Haa! Qaybta si aad u heshid '0' ta ku taala laqaybshaha god-rugeedkiiso koowaad markaad ka tirtid inta kale waxaad u qaadan oo ay tahay qaybta.



### Laylis 2.3b

Ka shaqee jawaabtana hubiya

<b>b</b>	$300 \div 10 = \underline{\quad}$	<b>t</b>	$650 \div 10 = \underline{\quad}$	<b>j</b>	$830 \div 10 = \underline{\quad}$
<b>x</b>	$40000 \div 10 = \underline{\quad}$	<b>kh</b>	$1650 \div 10 = \underline{\quad}$	<b>d</b>	$8370 \div 10 = \underline{\quad}$
<b>r</b>	$50000 \div 10 = \underline{\quad}$	<b>s</b>	$26040 \div 10 = \underline{\quad}$	<b>sh</b>	$83720 \div 10 = \underline{\quad}$
<b>dh</b>	$700000 \div 10 = \underline{\quad}$	<b>c</b>	$560470 \div 10 = \underline{\quad}$	<b>g</b>	$143910 \div 10 = \underline{\quad}$

Isku qaybinta hadhaga leh

### Hawlgalka 2.3j

1 Raadi qaybta

<b>b</b>	$11 \div 10 = \underline{\quad}$	<b>t</b>	$23 \div 10 = \underline{\quad}$	<b>j</b>	$35 \div 10 = \underline{\quad}$
<b>x</b>	$48 \div 10 = \underline{\quad}$	<b>kh</b>	$59 \div 10 = \underline{\quad}$	<b>d</b>	$121 \div 10 = \underline{\quad}$
<b>r</b>	$174 \div 10 = \underline{\quad}$	<b>s</b>	$286 \div 10 = \underline{\quad}$	<b>sh</b>	$98 \div 10 = \underline{\quad}$
<b>dh</b>	$525 \div 10 = \underline{\quad}$				

2 Laqaybshaha, qaybta iyo hadhaaga bal si taxadur ah ugu fiirsada. Qaybta iyo hadhaaga si dagdag ah ama wado qarda jeex ah si aad ugu heshiin miyay jirtaa tab aad isticmaashaan?

## Tusaale 13

Ka shaqeeya

<b>b</b>	$231 \div 10 = \underline{\quad}$	<b>t</b>	$6524 \div 10 = \underline{\quad}$	<b>j</b>	$75253 \div 10 = \underline{\quad}$
----------	-----------------------------------	----------	------------------------------------	----------	-------------------------------------

Jawaab

**b**

$$\begin{array}{r} 23 \\ 10 \overline{) 231} \\ \underline{20} \phantom{0} \\ 31 \\ \underline{30} \\ \underline{01} \end{array}$$

Sidaa daraadeed  $231 \div 10 = 23$  hadhaa 1 sabaabto ah  
 $(23 \times 10) + 1 = 231$

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

Sidaa daraadeed  $6524 \div 10 = 652$  Hadhaa 4 sababto ah  
 $(652 \times 10) + 4 = 6524$

$$\begin{array}{r} 7525 \\ 10 \overline{) 75253} \\ \underline{70} \phantom{000} \\ 52 \phantom{000} \\ \underline{50} \phantom{000} \\ 25 \phantom{000} \\ \underline{20} \phantom{000} \\ 53 \phantom{000} \\ \underline{50} \phantom{000} \\ 03 \phantom{000} \\ \underline{03} \\ 00 \end{array}$$

Sidaa daraadeed  $75253 \div 10 = 7525$  Hadhaa 3 sababto ah  
 $(7525 \times 10) + 3 = 75253$



Tiro idil oo godkeeda ku yaala god-rugeedka koowaad unan ahayn 0 (eber) marka loo qaybiyo 10 magaran kartaa qaybtu inta ay noqon hadhaagu se imisa ayuu nogon.

Haa hey! Laqaybshaha godkiisa ku yaala god-rugeedka koowaad wuxuu noqon hadhaaga inta kale na waxay noqon qaybta.



### Laylis 2.3t

Isu qaybi jawaabtana hubi

**b**  $34 \div 10 = \underline{\quad}$

**t**  $267 \div 10 = \underline{\quad}$

**j**  $721 \div 10 = \underline{\quad}$

**x**  $6654 \div 10 = \underline{\quad}$

**kh**  $2317 \div 10 = \underline{\quad}$

**d**  $8936 \div 10 = \underline{\quad}$

**r**  $46023 \div 10 = \underline{\quad}$

**s**  $30056 \div 10 = \underline{\quad}$

**sh**  $79899 \div 10 = \underline{\quad}$

**dh**  $143251 \div 10 = \underline{\quad}$

**c**  $489635 \div 10 = \underline{\quad}$

**g**  $672542 \div 10 = \underline{\quad}$

## Cutubka

# 3aad



## JAJABYDA IYO JAJAB-TOBAN-LE YAASHA

### 3.1 JAJABYO QAYBO WALAX IDIL

Casharadiinii xisaabta ee fasalka 3<sup>aad</sup> xasuusta oo su'aalahan soo socda ka jawaaba.

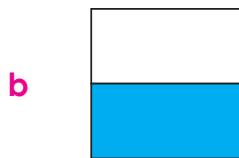
#### Hawlgal 1

- 1 Waa maxay jajabku?
- 2 Waa maxay faa iidada jajabku?
- 3 Sawirka laydiga ee dhinaca biddixda ku sawiran u fiirsada oo ka jawaaba su'aalahan hoose.
  - b Qaybta laydiga ee ranjiga doogada ah la mariyay laydiga intee ayey ka tahay?
  - t Qaybta laydiga ee midabka casaanka lagu midabeeyey laydiga intee ayey ka tahay?
  - j Qaybta laydiga ee midabka buluuga la mariyey laydiga intee ayey ka tahay?
  - x Qaybta aanan midabka buluuga ah, la marinin intee ayay laydiga ka tahay?



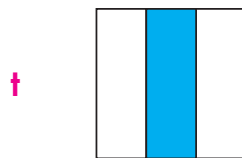
#### Tusaale 1

Hoostan laydiyada ku tusan qaybo isle'eg ayaa loo qaybiyay. Qaybta la midabeeyey jajab ku sheega (ku, muujiya ama ku cadeeya).



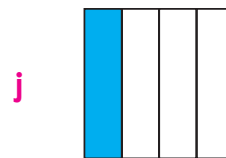
$$\frac{1}{2}$$

(Laba meelood meel)



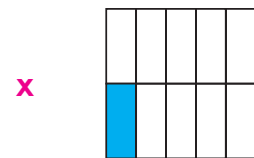
$$\frac{1}{3}$$

(Saddexmeelood meel)



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

(Afar meelood meel)



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

(Toban meelood meel)

$\frac{1}{2}$  waa jajib 1 waxaa la yidhaahdaa sareeye, 2 dana waxaa la yidhaahdaa hooseeye.

$\frac{3}{4}$  Waa jajib 3 waa sareeyaha jajibka 4 na waa hooseeyaha jaabka.

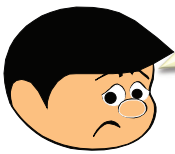
Shay idil waaxdiisa (qaybtiisa) waxa la yidhaahdaa jajab

Hal liin macaan ah haddii afarmeelood oo isle'eg ah inta loo qaybiyo, saddex meelood la qaado, qaybta la qaaday, waxaa lagu muujiyaa afar meelood saddex ama  $\frac{3}{4}$  hooseeyaha oo ah (4) wuxuu tilmaamayaa inta meelood ee isle'eg ee liinta loo qaybiyay. Sareeyaha oo ah (3) wuxuu tilmaamayaa guud ahaan qaybaha la qaybiyay inta meelood ee la qaatay.

Shay idil waaxdiisa (qaybtiisa) waxa la yidhaahdaa jajab

$\frac{1}{4}$  waa jajib

$\frac{3}{4}$  Sareeye  
4 Hooseeye



Ma ogtahay jajab sareeyihiisu hadii uu 1 yahay in jajibka loo yaqaano jajab-halleed

Haddaase  $\frac{1}{2}, \frac{1}{3}, \frac{1}{4}, \frac{1}{5}, \dots, \frac{1}{10}, \dots, \frac{1}{20}, \dots, \frac{1}{100}$  IWM waa tusaalooyin ka mid ah. Jajib-halleedyada.

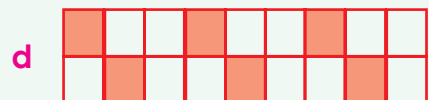
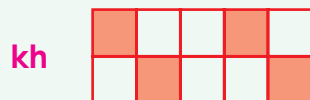
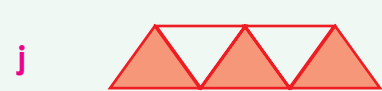
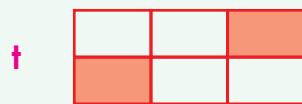


Waxa jira jajab-halleedyo la yaqaano oo magacyo kala duwan loogu yeedho

$\frac{1}{2}$ waa nus (badh)	Nus	$\frac{1}{4}$ waa rubuc	Rubuc
$\frac{1}{3}$ waa saddex dalool-hal	Saddex dalool-hal	$\frac{1}{10}$ waa haltobnay	Haltobnay

**Laylis 3.1**

1 Qaybta midabka hurdiga lagu qalimeeyay jajab kumuuji (cadee).





2 Shaxdan hoose dhamaystira.

	Jajab	Sareeye	Hooseeye	Sida loo akhriyo
<b>b</b>	$\frac{1}{12}$			
<b>t</b>	$\frac{3}{7}$			
<b>j</b>	$\frac{9}{20}$			
<b>x</b>	$\frac{13}{30}$			
<b>kh</b>	$\frac{30}{30}$			

3 Jajabyada sawir ku haboon oo u dhigma u sameeya (sawira).

**b**  $\frac{1}{6}$       **t**  $\frac{3}{10}$       **j**  $\frac{7}{13}$       **x**  $\frac{5}{15}$       **kh**  $\frac{12}{12}$

4 Hal kiintaal oo qamadin (bur) ah haddii shan qoys si isle'eg loogu qaybiyo hal qoys inta qamadinka ka soo gaa dhaysa jajab ku cadeeya.

5 Goobo ayaa kaartoon inta lagu sawiray 16 meelood oo isleeg loo googooyay.

- b** hal qayb inta ay tahay jajab ku cadeeya.
- t** shan qaybood jajab ku muujiya.
- j** 12 qaybood jajab ku muujiya.

### 3.2 ISBARBAR DHIGIDDA IYO HORSANAANTA JAJABYADA LEH HOOSEEYE ISKU MID AH

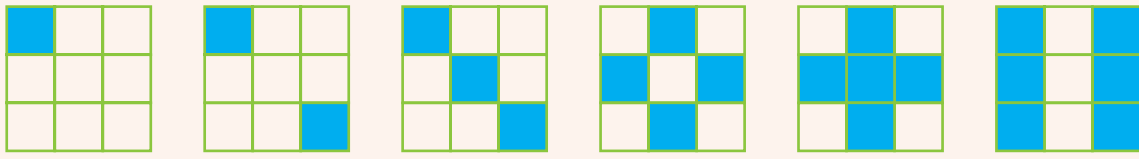
#### Hawlgal 3.2

1 Fiiriya jajab yadan hoose

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

Jajabyadu waxay isaga 'eg yihiin waa maxay?

2 Sawiradan hoose fiiriya



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

$$\frac{2}{9}$$

**b** qaybaha midabka buluuga lagu qalimeeya jajab ku magacaaba.

**t** markii walba laba jajab inta ad qaadatiin isbarbardhiga idinka oo adeegsanaya calaamada  $>$  ama  $<$ .

### Tusaale 1

$$\frac{1}{9} < \frac{2}{9} \text{ ama } \frac{2}{9} > \frac{1}{9}$$

### Tusaale 2

Sawir idinka oo adeegsanaya isbarbardhiga

$$\frac{2}{7} \text{ iyo } \frac{3}{7} \text{ tee baa weyn?}$$

**Jawaab**



$\frac{2}{7}$   $\frac{2}{7}$  iyo  $\frac{3}{7}$  hooseeyahoodu waa 7 waa jajabyo isu eg)



$3 > 2$  sidaas darteed  $\frac{3}{7} > \frac{2}{7}$  ama maadaama ay  
 $2 < 3$ ,  $\frac{2}{7} < \frac{3}{7}$

### Tusaale 3

$$\frac{3}{10}, \frac{5}{10}, \frac{7}{10}$$

**Jawaab**

Maadaama ay yihiin jajabyo isu'eg waxaan isbarbardhigaynaa sareeyayaashooda.

$$3 < 5 < 7 \text{ waa run sidaas darteed } \frac{3}{10} < \frac{5}{10} < \frac{7}{10} \text{ ama}$$

$$7 > 5 > 3 \text{ waa run sidaas darteed } \frac{7}{10} > \frac{5}{10} > \frac{3}{10}$$

## Laylis 2

- 1 Afar jajab-halleedyaal ah tusaale ahaan u qora (siiya)
- 2 Qora afar tusaala oo jajabyo isku eg ah.
- 3 Idinka oo ku adeegsanaya calaamadaha  $>$ ,  $<$  ama  $=$  isbarbardhiga
 

<b>b</b> $\frac{1}{2} \square \frac{1}{2}$	<b>t</b> $\frac{1}{2} \square \frac{2}{2}$	<b>j</b> $\frac{4}{7} \square \frac{3}{7}$
<b>x</b> $\frac{11}{29} \square \frac{19}{29}$	<b>kh</b> $\frac{29}{31} \square \frac{28}{31}$	<b>d</b> $\frac{71}{81} \square \frac{69}{81}$
- 4 Idinka oo ta yar kaga bilaabaya horsanaan udhiga
 

<b>b</b> $\frac{3}{30}, \frac{29}{30}, \frac{13}{30}$	<b>t</b> $\frac{75}{100}, \frac{25}{100}, \frac{50}{100}$	
---	---	--
- 5 Idinka oo ta weyn kaga bilaabaya horsanaan u dhiga (marka u horaysa ta ugu weyn, kadibna takale ee kuwa hadhay ugu weyn).
 

<b>b</b> $\frac{13}{24}, \frac{7}{24}, \frac{10}{24}$	<b>t</b> $\frac{32}{40}, \frac{39}{40}, \frac{18}{40}$	
---	--	--
- 6 Qaybaha hoostan lagu tilmaamay ee ka tirsan 50 kg oo sonkor ah jajab ku muuji
 

<b>b</b> hal kg oo sonkor ah jajab ku, muuji	<b>t</b> Siraad haddii ay 15 kg oo sonkor ku isticmaasho buskud samayntiisa, jajab ku cadee Siraad inta sonkor ah ay isticmaashay.	<b>j</b> labaatan iyo shan kg oo sonkor ah jajab ku sheega (muujiya)
<b>x</b> shan kg oo sonkor ah jajab ku muuj		

### 3.3 ISUGEYNTA IYO KALAGOYNTA JAJABYADA LEH HOOSEEYE ISKU MID AH

#### B Isugeyn

#### Hawgal 3.3

Sawirkan hoose u fiirsada



- |          |   |
|----------|---|
| <b>b</b> | Inta midabka madow lagu midabeeyey jajabahaan waa imisa meelood?        |
| <b>t</b> | Inta midabka cas lagu midabeeyey jajb ahaan waa imisa meelood?          |
| <b>j</b> | Inta midabka madowga aan lagu midabaynin jajab ahaan waa imisa meelood? |
| <b>x</b> | $\frac{3}{10} + \frac{5}{10} = \underline{\hspace{2cm}}$                |

Laba jajib oo isku'eg in la isugeeyoo waxay u baahantahay oo qudhaata isugeynta sareeyayaa shooda

$$\frac{3}{10} + \frac{5}{10} = \frac{3+5}{10} = \frac{8}{10}$$

## Tusaale 5

Isugeeya

**b**  $\frac{4}{7} + \frac{2}{7}$

**t**  $\frac{12}{31} + \frac{11}{31}$

**Jawaab**

**b**  $\frac{4}{7} + \frac{2}{7} = \frac{4+2}{7} = \frac{6}{7}$

**t**  $\frac{12}{31} + \frac{11}{31} = \frac{12+11}{31} = \frac{23}{31}$

### Laylis 3.3

**7** Isugeeya

**b**  $\frac{1}{2} + \frac{1}{2}$

**t**  $\frac{5}{8} + \frac{2}{8}$

**j**  $\frac{12}{20} + \frac{7}{20}$

**x**  $\frac{14}{32} + \frac{11}{32}$

**kh**  $\frac{22}{50} + \frac{19}{50}$

**d**  $\frac{12}{100} + \frac{71}{100}$

**8** Cali mushaarka uu helo  $\frac{2}{7}$  wuxuu ku bixiyaa kirada guriga  $\frac{3}{7}$  na wuxuu ku bixiyaa cunto. Haddaba cali

**b** Mushaarkiisa intee in le'eg ayuu ku bixiyaa kirada guriga iyo cuntada?

**t** Kharashkiisa weyni ma ta cuntadaa mise waa ta kirada guriga?

**9** Hal fasal ardayda wax ku barataa  $\frac{1}{10}$  waxay xubno ka yihiin ururka bisha cas,  $\frac{3}{10}$  waxay xubno ka yihiin ururka ciyaaraha isboortiga  $\frac{2}{10}$  waxay xubno ka yihiin ururka fanka iyo qoraalada,  $\frac{4}{10}$  waxay xubno ka yihiin ururka samafalka. Hal arday hal urur in ka badan xubin kama noqon karo.

**b** Ardayda xubno ka ah ururada kala ah ciyaaraha isboortiga iyo fanka iyo qoraalada intee ayey ardayda fasalka ka yihiin?

**t** Ardayda ku tirsan ururada kala ah fanka iyo qoraalada iyo ururka samafalka intee ayey ardayda fasalka ka yihiin?

**j** Ardayda xubnaha ka ah ururka bisha cas iyo kuwa xubnaha ka ah ururka samafalka haddi ay midoobaan oo ay isku abaabulaan hal urur tirada xubnaha ka ah ururka cusub intee in le'eg ayey ka tahay tirada ardayda guud ee fasalka?

**x** Ururka ciyaaraha isboortiga marka laga reebo ururada kale ardayda ku daywaansan intee in le'eg ayey ka yihiin ardayda guud ee fasalka.

**T** Kala gooyn

**Haqglaka 4**

Hal furun oo qaabka goobada leh haddii rubuc inta laga gooyo laga saaro.

- b** Furunka idil jajab ku muujiya
- t** Qaybta la gooyay ee laga saaray jajab ku muujiya
- j** Furunka hadhay jajab ku muujiya



Laba jajab oo isku eg in la kala gooyo waxay u baahan tahay oo qudhaata kala goynta sareeyahooda

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

**T**usaale 6

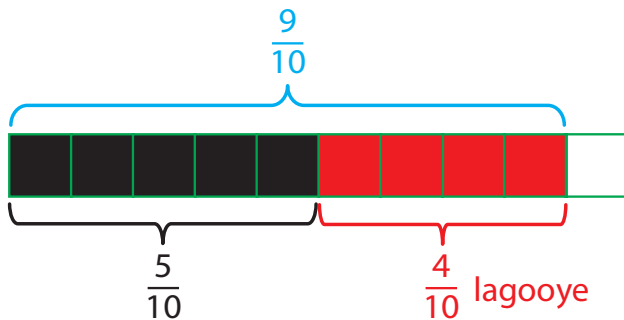
Kalagooya

**b**  $\frac{9}{10} - \frac{4}{10}$

**t**  $\frac{16}{24} - \frac{7}{24}$

**Jawaab**

**b**



Sidaas darteed,  $\frac{9}{10} - \frac{4}{10} = \frac{9-4}{10} = \frac{5}{10}$

**t**  $\frac{16}{24} - \frac{7}{24} = \frac{16-7}{24} = \frac{9}{24}$

## Laylis 3.4

1 Kalagooya

b  $\frac{4}{6} - \frac{2}{6}$

t  $\frac{5}{10} - \frac{3}{10}$

j  $\frac{11}{12} - \frac{5}{12}$

x  $\frac{14}{17} - \frac{3}{17}$

kh  $\frac{17}{20} - \frac{15}{20}$

d  $\frac{15}{20} - \frac{5}{24}$

r  $\frac{20}{30} - \frac{4}{30}$

s  $\frac{100}{100} - \frac{95}{100}$

2 Rooda lacag la siiyay in noqonaysa  $\frac{2}{5}$  waxay ku iibsatay buug. Inta u hadhay jajab ahaan waa imisa?3 Nin beeralay ah ayaa  $\frac{3}{8}$  dhul beereedkiisa ku beeray gallay. Dhulka aanan gallayda lagu beerin intee in le'eg ayuu ka yahay dhamaan dhulbeereedka.4 Dhulbeereed la goobay  $\frac{2}{8}$  waxaa laga beeray hadhuudh.  $\frac{1}{8}$  na waxa laga beeray qamadin. Inta aanan waxba lagu beerin intee ayey le'egtahay?3.4 JAJABYADA ISUDHIGMA

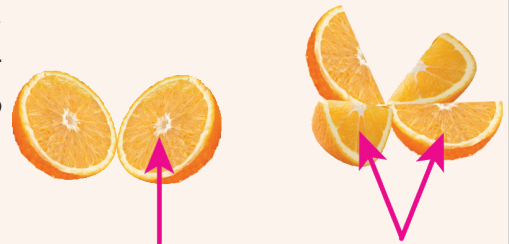
## Hawol 3.5

Axmad iyo khadra waxaa la siiyay hal hal liin ah oo isle'eg. Khadra liinta laba meelood oo isle'eg ayay u qaybisay. Kadibna hal qayb ayay cuntay. Axmad na liinta afarmeelood oo isle'eg intu uqaybiyay, ayuu laba qaybood cunay

b Khadra liinta ay cuntay jajab ku cadeeya (qora)

t Axmad inta uu cunay jajab ku cadeeya (qora)

j Laba dooda midkee baa qayb weyn cunay?



Jajabyada muujiya waax isku mid ah waxa la yidhaahda Jajabyo isudhigma

 $\frac{1}{2}$  iyo  $\frac{2}{4}$  waa jajabyo isu dhigma

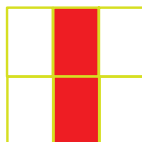
## Tusaale

b



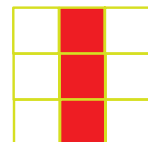
$\frac{1}{3}$

t



$\frac{2}{6}$

j



$\frac{3}{9}$

Sida aad ku aragtiin sawirada waaxyaha la qalimeeyay ee lagu muujiyay jajabyada  $\frac{1}{3}, \frac{2}{6}$  iyo  $\frac{3}{9}$  waa isku mid sidaas darteed jajabyada  $\frac{1}{3}, \frac{2}{6}$  iyo  $\frac{3}{9}$  waa jajabyo isku dhigma ufiirso  $\frac{1}{3} = \frac{2}{6} = \frac{3}{9}$ .

### Hawlgalka 4

- 1 Inta midabka madowga ahi jajabahaan waa imisa?
- 2  $\frac{1}{2}$  sareeyihiisa iyo hooseeyihiisa 2 ku dhufat. Maxaad hesheen?  
 $\frac{1}{2}$  sareeyihiisa iyo hooseeyihiisa 3 ku dhufat. Maxaad hesheen?  
 $\frac{1}{2}$  sareeyihiisa iyo hooseeyihiisa 4 ku dhufat. Maxaad hesheen?  
 $\frac{1}{2}$  sareeyihiisa iyo hooseeyihiisa 5 kudhufat maxaad hesheen?
- 3  $\frac{1}{2}$  Jajabyada ay isudhigmaan falanqeeya oo qoro.



### Tusaale 8

$\frac{1}{4}$  jajabyada ay isu dhigmaan soo saara

#### Jawaab

- $\frac{1}{4} = \frac{1 \times 2}{4 \times 2} = \frac{2}{8}$  sareeyaha iyo hooseeyaha oo 2 lagu dhufatay.
- $\frac{1}{4} = \frac{1 \times 3}{4 \times 3} = \frac{3}{12}$  sareeyaha iyo hooseeyaha oo 3 lagu dhufatay.
- $\frac{1}{4} = \frac{1 \times 4}{4 \times 4} = \frac{4}{16}$  sareeyaha iyo hooseeyaha oo 4 lagu dhufatay.
- $\frac{1}{4} = \frac{1 \times 5}{4 \times 5} = \frac{5}{20}$  sareeyaha iyo hooseeyaha oo 5 lagu dhufatay.
- $\frac{1}{4} = \frac{1 \times 6}{4 \times 6} = \frac{6}{24}$  sareeyaha iyo hooseeyaha oo 6 lagu dhufatay.
- Sidaas darteed  $\frac{1}{4}, \frac{2}{8}, \frac{3}{12}, \frac{4}{16}, \frac{5}{20}, \frac{6}{24}$  waa jajabyo isku dhigma.

### Laylis 5

- 1 Jajabyadan hoose middi walaba shan shan jajabyo oo ay isudhigmaan u raadiya  
**b**  $\frac{1}{10}$                       **t**  $\frac{5}{12}$                       **j**  $\frac{100}{200}$
- 2 Jajabyada lab labada ah ku tilmaama laba sawir oo waaxdoodu (qaybtoodu) ay isku mid tahay.  
**b**  $\frac{1}{5}, \frac{2}{10}$                       **t**  $\frac{2}{5}, \frac{4}{10}$                       **j**  $\frac{3}{8}, \frac{6}{16}$

3 Shaxda dhamaystira

Jajab	Sareeyaha iyo hoosee yaha marka lagudhufto					
	2	3	4	5	6	7
$\frac{1}{2}$	$\frac{2}{4}$					
$\frac{1}{3}$		$\frac{3}{9}$				
$\frac{2}{3}$			$\frac{8}{12}$			
$\frac{6}{7}$				$\frac{30}{42}$		
$\frac{3}{10}$					$\frac{18}{60}$	
$\frac{12}{23}$						$\frac{84}{161}$

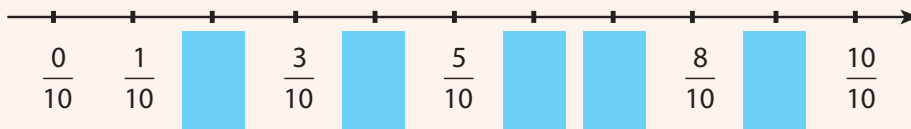
### 3.5 TOBAN-DALLOOLADA, BOQOL DALLOOLADA IYO JAJAB-TOBAN LAYAASHA

#### B Toban-Dalloolada (Tobanley) iyo Jajab-Tobanle

#### Hawlgal 6

Fiiriya Fallaadha tirada ee hoos lagu muujiyay. Falaadha tirada dusheeda 0 ilaa 1 waxa loo qaybiyay 10 meelood oo isle'eg.

1 Idinka oo koox koox ah sanduuqa waxaa ka maqan ku buuxiya.



2 Falaadha tirada dusheeda jajabyada ku qoran hooseeyayaashoodu waa imisa? \_\_\_\_\_

3 Jajabyadani ma jajabyo isku e'g baa?

4 Sida falaadha tirada dusheeda ku muujisan hal qaybi (hal xariijin) waaxda idil waxay ka tahay  $\frac{1}{10}$ .

- Laba qayboodi se? \_\_\_\_\_
- Sagaal qayboodi se? \_\_\_\_\_
- Saddex qayboodi se? \_\_\_\_\_
- Toban qayboodi se? \_\_\_\_\_
- Shan qayboodi se? \_\_\_\_\_



Sida aad hawsha korka ku aragteen dhamaan jajabyadu  $\frac{1}{10}, \frac{2}{10}, \frac{3}{10}$  I.W.M midkasta hooseeyahiisu waa 10.

Jajabka uu hooseeyihiisu yahay 10 waxaa la yidhaahda tobanley (toban-dalool)

Tobanley (toban-Dalool) kasta waxaa loo qori karaa lagu cadayn karaa ama lagu sharrixi karaa tiro kaloo ku began oo loo yaqaano jajab-tobanlay.

## Tusaale 9

Laydiyo isku mid ah ayaa sida hoos ku tusan 10 meelood oo isle'eg loo qaybiyay. Qaybaha midabka doogada lagu qalimeeyay ku muujiya ama ku qora tiro tobanlay (toban-daloola) ah iyo tiro jajab-tobanle ah.



Qaybta midabka doogada lagu qalimeeyay waa  $\frac{1}{10}$  ama 0.1



Qaybta midabka doogada leh waa  $\frac{2}{10}$  ama 0.2



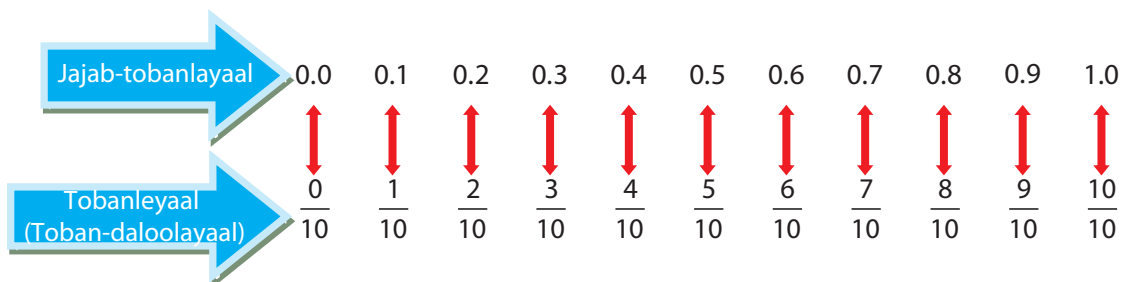
Qaybta midabka doogada ah waa  $\frac{3}{10}$  ama 0.3



Qaybta midabka doogada ah waa  $\frac{4}{10}$  ama 0.4

$\frac{1}{10}, \frac{2}{10}, \frac{3}{10}, \frac{4}{10}, \frac{5}{10}, \frac{6}{10}, \frac{7}{10}, \frac{8}{10}, \frac{9}{10}, \frac{10}{10}$  waxaa la yidhaahdaa tobanlayaal (toban-Daloo layaa) 0.1, 0.2, 0.3, ... 0.9, 1.0 waxaa la yidhaahdaa jajab-tobnalayaal  
 0.1 waxaa loo akhriyaa eber dhibic hal.  
 0.2 waxaa loo akhriyaa eber dhibic laba.  
 Labada tiro ee idil dhexdooda dhibicda (barta) la dhigo waxaa la yidhaahda dhibicda (barta) jajab-tobnalaha.

Sida dusha lagu cadeeyay shay idil oo u dhaxeeya 0 iyo 1 falaadha tirada dusheeda waxaa lagu tilmaami karaa tobanlayaal (toban-daloolayaal) iyo jajab-tobanlayaal.

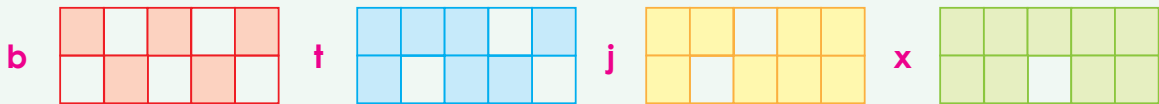


## Laylis 6

1 Shadan hoose buuxiya

	Erayo ku sheegista jajabyada	Tobanlay	Jajab-tobanlay
<b>b</b>	Toban meelod laba	$\frac{2}{10}$	0.2
<b>t</b>	Toban meelod saddex		
<b>j</b>	Toban meelod shan		
<b>x</b>	Toban-meelod toddoba		
<b>kh</b>	Toban meelod sagaal		
<b>d</b>	Toban meelod toban		

2 Sawiradan hoose qaybaha la qalimeeyay ku sheega (ku muujiya) tiro tobanlay ah tiro jajab-tobanlay ah.



3 Tobanlay (toban-dalool) kasta u bedel jajab-tobanle.

**b**  $\frac{6}{10}$       **t**  $\frac{7}{10}$       **j**  $\frac{8}{10}$       **x**  $\frac{9}{10}$

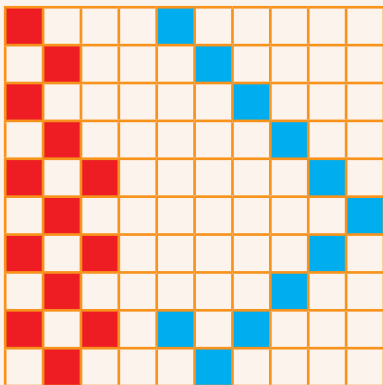
4 Jajab-tabanlay kasta u bedala tobanlay (toban-daloole).

**b** 0.1      **t** 0.2      **j** 0.3      **x** 0.4

**T** Boqol-Daloole (Boqolay) iyo Jajab-tobanle

## Hawgal 7

Labajibbaaranahan hoose ee dhinacyadiisu yihiin 10 iyo 10 waxa loo qaybiyay 100 meelod oo isle'eg



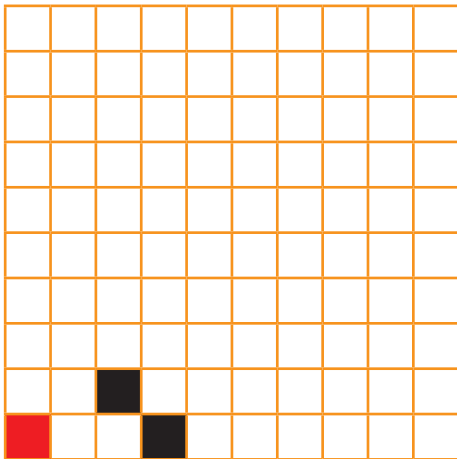
**b** Meelaha midabka cas lagu midabeeyey waa boqol meelod – ama  $\frac{\square}{100}$

- t** Inta midaka buluuga lagu midabeeyey waa boqol meelood – ama  $\frac{\square}{100}$
- j** casaanka iyo buluuga inta lagu midabeeyey waa boqolmeelood – ama  $\frac{\square}{100}$
- x** Inta aanan la midabaynin waa boqolmeelood – ama  $\frac{\square}{100}$

Jajab-boqolayaasha toban-daloolda (dhibic-toban layaasha) waa lagu muujin karaa.

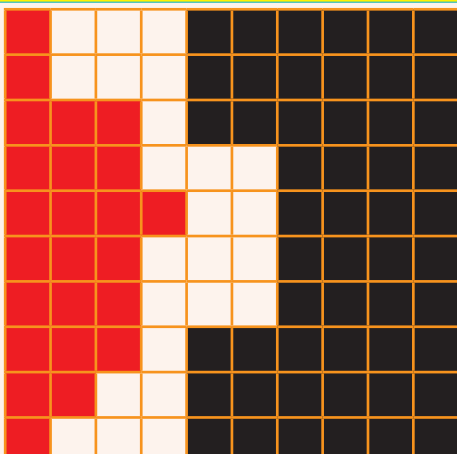
## Tusaale 10

Laba jibaarahan waxaa loo qaybiyay 100 meelood oo isle'eg.

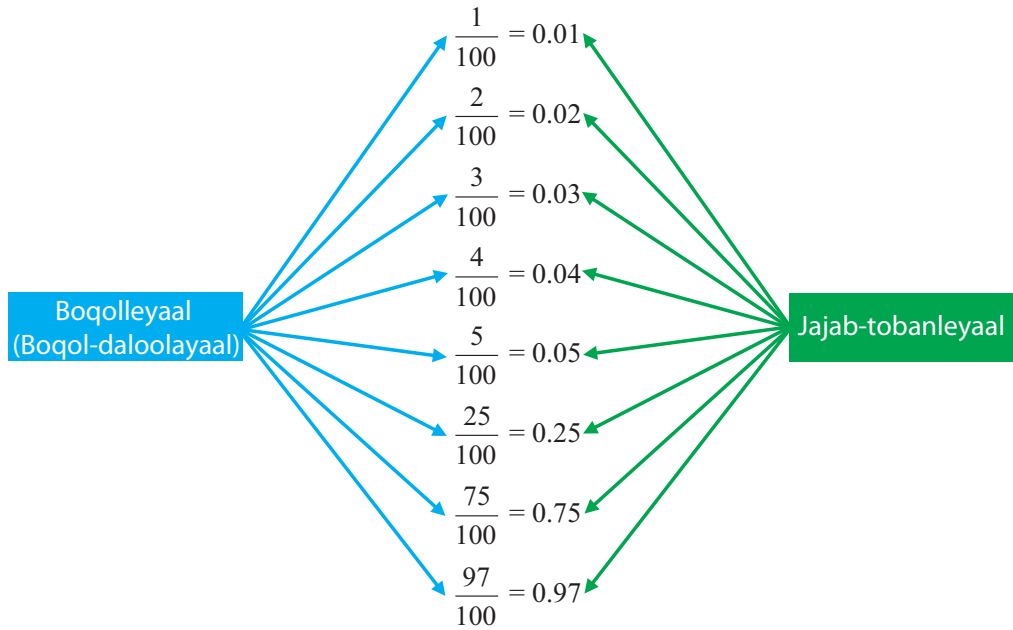


- b** Inta casaanka lagu midabeeyey waa  $\frac{1}{100}$  marka lagu qoro (lagu muujiyo) tior boqolley ah (boqol-daloole). Marka lagu sharraxayo Jajb-tobonle waxaa loo qaraa 0.01 (eber dhic eberhal)
- t** Inta madawoga lagu midabeeyey marka lagu qoro tior boqol-dalool (boqoley) ah waa  $\frac{2}{100}$  (boqolmeelood laba). Marka lagu muujiyo (lagu qoro) tiro jajab-tobnale ah waa 0.02 (eber dhibic eber laba).

## Shaqa kooxeed 1



- j** Inta casaanka lagu midabeeyey ku qor boqoley (boqol-daloole)
- x** inta casaanka lagu midabeeyey ku qori jajab-tobanle
- kh** inta madowaga lagu midabeeyey ku qora boqolley (boqol-daloole)
- d** inta madowga lagu midabeeyey ku qora jajab tobanle.
- r** inta aanla midabaynin ku qora boqolley (boqol-daloole).
- s** Inta aanan la midabaynin ku qora jajab-tobanle.



**Gabagabayn**

Tirooyinka idil sida shaxda qiima-rugeedka loogu dul qoro waad soo barateen. Imikana waxaad baranaysiin sida jajab-tobanleyaasha loogu dul qoro shaxda qiima-rugeedka.

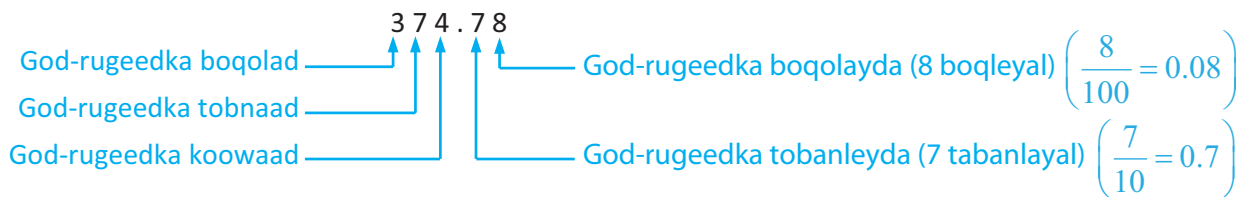
**Tusaale 3**

Tirooyinkan hoose ku dul qora shaxda qiima-rugeed ka.

**b** 0.25      **t** 0.75      **j** 1.25      **x** 23.85      **kh** 374.78

**Jawaab**

	Tirada jajab-tobanle	Godka (100)	Godka (10)	Godka (1)	Godka $\frac{1}{10}$	Godka $\frac{1}{100}$
<b>b</b>	0.05			0	0	5
<b>t</b>	0.75			0	7	5
<b>j</b>	1.25			1	2	5
<b>x</b>	23.85		2	3	8	5
<b>kh</b>	374.78	3	7	4	7	8



**Ufiirsada**

Tirooyinka jajab-tobanlayaasha si caadi ah ayaan ugu adeegsanaa marka aan fulinayno hawlaha la xidhiidha nolol maalmeedkeena. Gaar ahaan tirooyinka jajab-tobanla yaasha waxaan ku isticmaalnaa arimaha la xidhiidha sarifaada lacagta, halbeegyada dhererka, halbeegyada culayska iyo waxyool kaloo la mid ah.

**Tusaale 4**

$$75 \text{ saantiim waxay ka dhigantahay } 0.75 \text{ birr} = \frac{75}{100} \text{ birr (lacag)}$$

$$50 \text{ saantimitir waxay kadhigantahay } 0.50 \text{ mitir} = \frac{50}{100} \text{ mitir(dherer)}$$

$$2 \text{ birr iyo } 35 \text{ saantiim waxay kadhigantahay } = 2.35 \text{ birr} = \frac{235}{100} \text{ birr.}$$

**Isku bedalidda boqoleeyada (boqol-daloolada) iyo jajab-tobanlayda****Tusaale 5**

Boqolleyda ubedala jajab-tobanalha ku began.

$$b \quad \frac{49}{100}$$

$$f \quad \frac{9}{100}$$

**Jawaab**

$$b \quad \frac{49}{100} = 0.49$$

$$f \quad \frac{9}{100} = 0.09$$

$$0.09 \neq 0.90$$

$$0.09 < 0.90$$

**Tusaale 6**

Jajab-tobanlayaashan hoose ubedala boqolley (boqol-daloole).

$$b \quad 0.54$$

$$f \quad 0.89$$

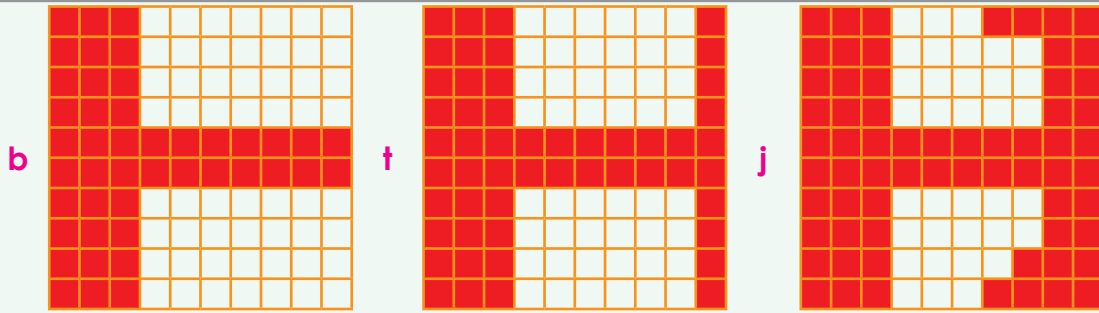
**Jawaab**

$$b \quad 0.54 = \frac{54}{100}$$

$$f \quad 0.89 = \frac{89}{100}$$

**Laylis 7**

- 1 Qaybaha midabka cas lagu qalimeeyay ee labajibbaaranaha ka tirsan tiro boqolley ah iyo tiro jajab-tobanle ah ku muujiya.



2 Warqada garaafka lagu sawiro ku sawira labajibbaarane dhinaciiisu yahay 10 kadibna tirooyinkan hoose ee jajab-tobanla yaasha ah qaybaha udhigma hadheeya (madoobeeya).

**b** 0.08                      **t** 0.85                      **j** 0.91                      **x** 0.99

3 Kuwan soo socda dhamaystira

**b**  $0.31 = \underline{3}$  tobanlay +  $\underline{1}$  boqolay =  $\frac{31}{100}$

**t**  $0.50 = \underline{\quad}$  tobanlay +  $\underline{\quad}$  boqolay =  $\underline{\quad}$

**j**  $0.69 = \underline{\quad}$  tobanlay +  $\underline{\quad}$  boqolay =  $\underline{\quad}$

**x**  $3.82 = \underline{\quad}$  kow +  $\underline{\quad}$  tobanlay +  $\underline{\quad}$  boqolay =  $\underline{\quad}$

**kh**  $12.97 = \underline{\quad}$  toban +  $\underline{\quad}$  kow +  $\underline{\quad}$  tohanlay +  $\underline{\quad}$  boqolay =  $\underline{\quad}$

4 Jajab-tobanle ubedata

**b**  $\frac{6}{100}$                       **t**  $\frac{38}{100}$                       **j**  $\frac{79}{100}$                       **x**  $\frac{192}{100}$

5 Boqolley ubedala

**b** 0.08                      **t** 0.36                      **j** 0.68                      **x** 1.42

6 Godadka (astatirooyaasha) hoosta laga xariiqay qiima-rugeedkooda qora

**b**  $4.\underline{6}7$                       **t**  $3.8\underline{2}$                       **j**  $4\underline{3}.25$                       **x**  $\underline{49}.12$

7 Godka (astatiraha) 6 qiima-rugeedkiirsa sheega oo qora

**b** 0.06                      **t** 0.60                      **j** 6.12                      **x** 60.14

8 Dhamaystira shaxda

<b>Boqolley</b>	$\frac{17}{100}$		$\frac{81}{100}$	$\frac{5}{100}$		
<b>Jajab-tobanle</b>		0.76			0.07	6.29

9 Kuwan hoose ku sheega (qora) tiro jajabtobanleyaal ah

**b** 95 saantiim                      **t** 3 birr iyo 50 saantiim

**j** 78 sm                      **x** 1 mitir iyo 15 sm



$$\times \quad 13.25 > 12.98$$

Marka hore waxaan isbarbaddhigaynaa tirooyinka idil. Maadaama ay tirooyinka idili kala weyn (yar) yihiin loo ma baahna in la isbarbaddhigo tirooyinka ah jajab tobanlayaasha sidaas darteed  $13.25 > 12.98$  waayo  $13 > 12$ .

## Tusaale 2

Isbarbar dhiga jajab tobanlayaashan hoos ku qoran ka dibna u qora sida ay u kala weyn yihiin idinka oo ka bilaabaya kan ugu yar.

$$3.2, 2.62, 2.543 \text{ iyo } 3.18$$

**Jawaab:-**

Marka la isbarbaddhigayo tirooyinka ay godkooda kowga yahay 2.

$$2.54 = 2.540$$

$$2.543 < 2.62$$

Kuwa godkooda kowga uu yahay 3

$$3.18 < 3.20$$

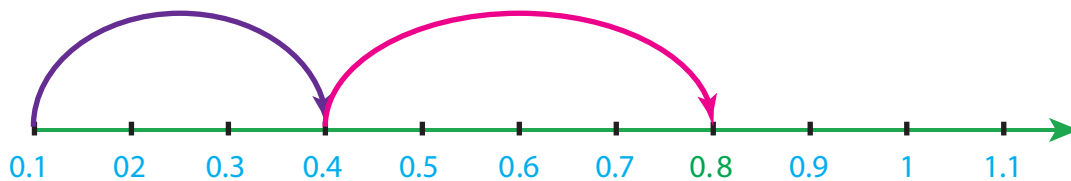
Sidaas darteed,  $2.54 < 2.543 < 2.62 < 3.18 < 3.2$

Halkanna waxaynu ku baran doonaa sida la isu barbaddhigo jajab tobanlayaasha iyada oo la adeegsanayo fallaadha tirada.

## Tusaale 3

Idinka oo adeegsanaya fallaadha tirada isbarbaddhiga tirooyinka soo socda kadibna horsanaan u qora ta ugu yar ilaa ta ugu weyn.

$$0.7, 0.9, 0.3, 1.1, 1, 0.5$$



Sida aad ka arkaysaan fallaadha tirada.

$$0.3 < 0.5 < 0.7 < 0.9 < 1 < 1.1$$

### Laylis 3.6

**1** Ka yar inta ad ka bilowdiin ilaa ka weyn horsanaan u qora.

**b** 2.32, 2.2, 2.3

**t** 0.06, 0.02, 0.1

**j** 0.5, 0.05, 0.51



**x** 5.01, 5.00, 5.10      **kh** 12.0, 12.06, 12      **d** 20.23, 20.2, 0.21, 20.19

**r** 0.9, 0.08, 0.80, 0.88      **s** 37.23, 36.4, 36.39, 36.09

- 2** Hal dhalo oo miriinda ah qiimaheedu haddii uu yahay 3.50 Birr qiimaha hal baakid oo buskuda na 3.45 Birr kee ayaa qiima weyn leh?
- 3** Carte dhererkiisu waa 1.56 mitir. Xaawo dhererkedu na waa 1.57 mitir. Labada midkee dheer?
- 4** Suuqa alaabaha jumladaha lagu iibiyo 100 Birr waxaa lagu iibsanaa 2.75 kiilo garaam oo subag ah. Suuqa tafaariiqda lagu iibiya na 100 birr waxaa lagu iibsanaa 2.25 kiilo garaam oo subag ahi. Hadaba qiimaha subagu suqee ayuu ku jaban yahay?
- 5** Gaadhi xumulka (rarka) lagu raro dhererka joogiisu marka uu raran yahay waa 2.9 mitir. Kaabad (buunda) ay gaadhi yadu hoos maraan dhareka joogeedu waa 2.89 mitir. Gaadhigu isaga oo raran kaabada (buundada) miyuu hoos mari karaa? Mise ma karayo? Waayo?
- 6** Siyaad heerkulka jidhkiisa markii la cabbiray wuxu noqday 36.6 digrii sentigred. Maxamuud an markii la cabiray heerkulkiisa waxuu noqday 36.8 digrii sentigrade. Hadaba labadaas kee baa heerkul badan leh?

### **3.7** ISUGEYNTA IYO KALA GOYNTA JAJAB-TOBAN-LE YAASHA LEH ILAA 2-GOD OO MIDIG KA XIGA BARTA JAJAB-TOBANLAHA

**B** Isugeyn

#### Hawlgalka 3.10

- 1** Hal qalin qori qiimihiisu haddii uu yahay 1.15 Birr. Sidoo kale hal qalin qiimihiisu haddii uu yahay 2.25 Birr. Dhamaan qiimaha labada shay waa imisa?
- 2** Arday ayaa hal buug ku iibsaday 13.50 Birr. Ardaygan qudhiisa ayaa kubad ku iibsaday 5.35 Birr. Ardaygu buuga iyo kubadda uu iibsaday dhamaan inta uu ku bixiyay waa imisa?

### **T**usaale 1

Isugee

**b**  $0.3 + 0.4$

**f**  $0.14 + 0.32$

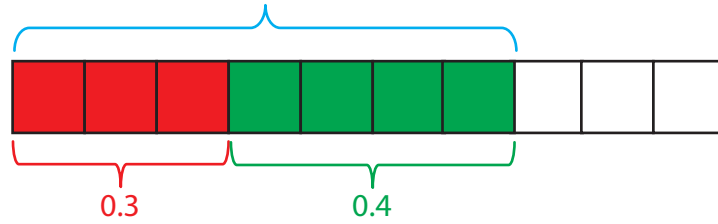
**Jawaab**

**b**  $0.3 + 0.4 = \underline{\hspace{2cm}}$

Tallaabooyin kala duwan ayaa sida hoostan lagu muujiyay la isugu geyn karaa.

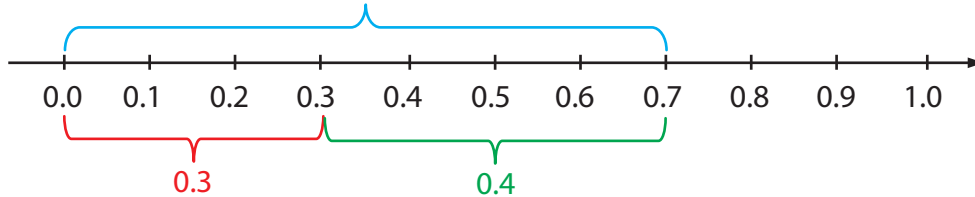
**Talaabada 1<sup>aad</sup>**:- Walax (shay) idil oo la qayqaybiyay iyada oo la adeegsanayo

$$0.3 + 0.4 = 0.7$$



**Talaabada 2<sup>aad</sup>**:- Iyada oo lagu adeegsanayo falaadhatirada.

$$0.3 + 0.4 = 0.7$$



**Talaabada 3<sup>aad</sup>**:- Iyada la isticmaalayo god-rugeedka godadka.

- Biiryooyinka jog isku hoos qor adiga oo isku hoos qoraya godadka god-rugeedkooda mid yahay.
- Adiga oo ka bilaabaya god-rugeedka qiimihiisu yar yahay (dhinaca midig) isugee.
 
$$\begin{array}{r} 0.3 \\ \underline{0.4} \\ 0.7 \end{array} \quad \begin{array}{l} (3 + 4 = 7) \\ (0 + 0 = 0) \end{array}$$
- Barta jajab-tobanlaha adiga oo meesheeda ilaalinaya hoos u daji.

**Tallaabada 4<sup>aad</sup>**: Iyada oo marka hore jajab-tobanlaha loo beddelayo jajabka ku began.

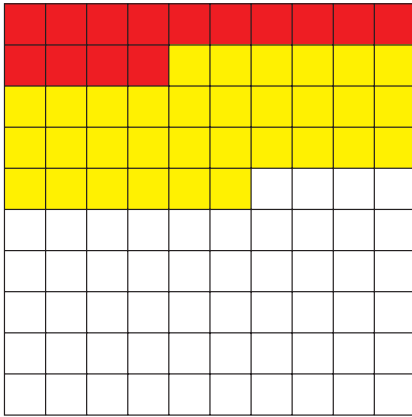
Kadibna marka la helo natiijada isugeynta ayaa mar labaad loo celin jajab-tobanle.

$$0.3 + 0.4 = \frac{3}{10} + \frac{4}{10} = \frac{3+4}{10} = \frac{7}{10} = 0.7$$

Sidaas darteed  $0.3 + 0.4 = 0.7$

†  $0.14 + 0.32 = \underline{\hspace{2cm}}$

**Tallaabada 1<sup>aad</sup>**: Iyada oo la adeegsanayo labajibbaarane ay dhererka dhinacyadiisu yihiin 10.



$$0.14 + 0.32 = 0.46$$

U firso labajibbaaranaha qoyabaha lagu qalimeeyaya labada midab waxay u dhigmaan 0.46

**Tallaabada 2<sup>aad</sup>:** Adiga oo isticmaalya god-rugeedka godadka

- Birooyinka jog isku hoos qor adiga oo isku hoos qoraya godadka isku began.
- Adiga oo ka bilaabaya god-rugeedka qiimihiisu ugu yarhay (dhinac mididg) isugee.
 
$$\begin{array}{r} 0.14 \\ \underline{0.32} \\ 0.46 \\ (4 + 2 = 6) \\ (1 + 3 = 4) \\ (0 + 0 = 0) \end{array}$$
- Barta (dhibicda) jajab-tobanlaha adiga oo meesheeda u ilaalinaya hoo udaji.

**Tallaabada 3<sup>aad</sup>:** Iyada oo marka hore jajab-tobanlaha loo bedddalayo jajabka ku began. Kadibna marka la helo natiijada isugeynta ayaa mar labaad loo rogi jajab-tobanle.

$$0.14 + 0.32 = \frac{14}{100} + \frac{32}{100} = \frac{14 + 32}{100} = \frac{46}{100} = 0.46$$

Sidaas darteed  $0.14 + 0.32 = 0.46$

## T Kalagoyn

### Tusaale

Kalagoo

**b**  $0.9 - 0.4$

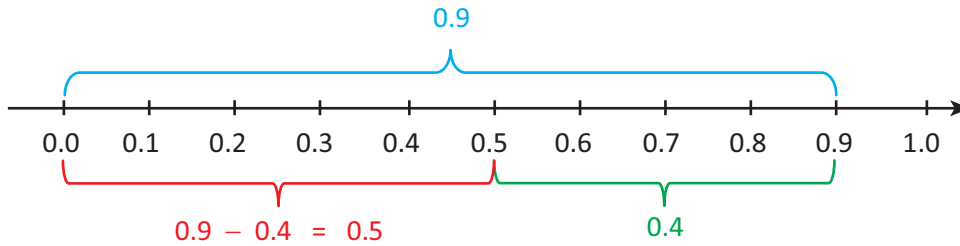
**t**  $2.86 - 0.32$

**j**  $3.4 - 1.8$

**x**  $3.46 - 1.68$

**b**  $0.9 - 0.4$

**Tallaabada 1<sup>aad</sup>:** Iyada oo la adeegsanayo falaadha tirada.



**Tallaabada 2<sup>aad</sup>:** Iyada oo la isticmaalayo god-rugeedyada godadka.

- Tirooyinka idil sida aan u kala goyno si la mid ah ayann tirooyinka gododkooda isku beegin inta aan joog isku hoos qorno ayaan kalagoynaynaa.

$$\begin{array}{r} 0.9 \\ -0.4 \\ \hline 0.5 \\ (9 - 4 = 5) \\ (0 - 0 = 0) \end{array}$$

- Barta (dhibicda) jajab-tobanlaha meesheeda inaga oo ilaalinayna ayaan hoos udajinaynaa.

$$9 \text{ jajab-tobanle} - 4 \text{ jajab-tobanle} = 5 \text{ jajab-tobanle}$$

**Tallaabada 3<sup>aad</sup>:** Iyada oo marka hore jajab-tobanlaha loo bedalayo jajab.

$$0.9 - 0.4 = \frac{9}{10} - \frac{4}{10} = \frac{9-4}{10} = \frac{5}{10} = 0.5$$

Sidaas darteed,  $0.9 - 0.4 = 0.5$

## Tusaale 6

Xisaabiya  $27.655 - 9.06$

$$\begin{array}{r} 27.655 \\ -9.060 \\ \hline 27.655 \end{array} \quad \begin{array}{l} 9.06 \text{ "0"} \text{ raaci si ay tirada dhibcaha isula ekaadaan} \\ \\ \end{array}$$

$$\begin{array}{r} 27.655 \\ -9.060 \\ \hline 18.595 \end{array} \quad \begin{array}{l} \text{iska daa dhibcaha oo sidii caadiga ahayd u kala goo} \\ \\ \end{array}$$

$$\begin{array}{r} 27.655 \\ -9.060 \\ \hline 18.595 \end{array} \quad \begin{array}{l} \text{dhibicda ku qor halka ku aaddan oo ka hooseeysa.} \\ \\ \end{array}$$

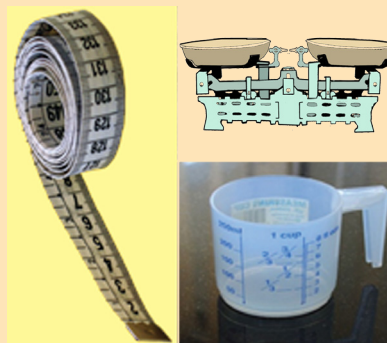
Sidaa darteed,  $27.655 - 9.06 = 18.595$

## Laylis 3.7

- 1** Isugeeya
- |           |  |           |  |          |   |          |               |
|-----------|--|-----------|--|----------|---|----------|---------------|
| <b>b</b>  | $\begin{array}{r} 0.2 \\ +0.4 \\ \hline \end{array}$ | <b>t</b>  | $\begin{array}{r} 0.12 \\ +0.52 \\ \hline \end{array}$ | <b>j</b> | $\begin{array}{r} 1.32 \\ +.81 \\ \hline \end{array}$ | <b>x</b> | $0.5 + 0.4$   |
| <b>kh</b> | $0.8 + 0.7$  | <b>d</b>  | $1.3 + 1.6$  | <b>r</b> | $2.7 + 3.8$   | <b>s</b> | $0.31 + 0.27$ |
| <b>sh</b> | $1.34 + 2.68$  | <b>dh</b> | $3.47 + 4.99$  | <b>c</b> | $972.54 + 0.96$                                       |          |               |
- 2** Kala gooya
- |           |  |          |  |          |  |          |  |
|-----------|--|----------|--|----------|--|----------|--|
| <b>b</b>  | $\begin{array}{r} 1.8 \\ -0.3 \\ \hline \end{array}$ | <b>t</b> | $\begin{array}{r} 2.4 \\ -0.7 \\ \hline \end{array}$     | <b>j</b> | $\begin{array}{r} 3.41 \\ -1.23 \\ \hline \end{array}$   | <b>x</b> | $2.1 - 0.2$  |
| <b>kh</b> | $6.4 - 3.6$  | <b>d</b> | $\begin{array}{r} 26.59 \\ -13.17 \\ \hline \end{array}$ | <b>r</b> | $\begin{array}{r} 31.45 \\ -15.68 \\ \hline \end{array}$ | <b>s</b> | $\begin{array}{r} 41.06 \\ -12.48 \\ \hline \end{array}$ |
- 3** Hal kiish waxaa ku jira 17.8 kg oo bariis ah. Kiish kale na waxa ku jira 12.9 kg oo bariis ah. Labada kiish ee bariisku ku jiro guud ahaan culayskoodu waa imsia?
- 4** Nin surwaalkiisa oo qudhaata wuxu u baahan yahay maro 1.25 mitir ah. Koodkiisuna wuxu u baahan yahay dhar 1.65 mitir ah Ninku koodh iyo surwaal inuu tosho inte in le'eg oo maro ah ayuu u baahan yahay?
- 5** Sibidh iyo niis la isku walaaqay oo loogu talagalayan in dhismo lagu dhiso culayskoodu waa 35.75 kg. niiska culayskiisu hadii uu yahay 18.86 kg sibidhka culayskiisu waa imisa?
- 6** Arday ayaa doonay in uu iibsado buug qiimihiisu yahay 12.75 Birr. Hase a haatae ardaygu lacagtu haystaa waa 7.95 Birr. Buuga in uu iibsado lacagtu u baahan yahay waa intee in le'eg?

## Cutubka

# 4 aad



## CABBIRAADDA

### 4.1 CABBIRAADDA DHERERKA

Dalkeena dadku marka ay cabbirayaan dhererka waxay isticmaalaan qaybo kala duwan oo jidhkooda ka mid ah. Kuwaas oo ah

Cagta, farta, taakada xusulka iyo talaabadu waa halbeeg-dhaqaameedyo loo isticmaalo cabbiraada dhererka.

#### Hawlgalka 1

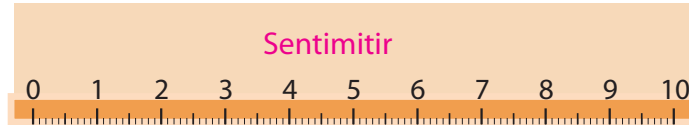
- 1 Dhererka buugtiina farahiina ku cabbira
- 2 Dhererka dhinaca gudban ee sabuuradda xusulkiina ku cabbira (xusuliya)
- 3 Fasalkiina dhererka afartisa dhinac midkood cagtiina ku cabbira. Sidoo kale Talaabadiina ku cabbira.
- 4 Arday raali ka ah dhererka joogiisa taakadiina ku cabbira

Korka Hawlgalka 4.1 natiijada aad heesheen in ayanan isku mid ahayn oo ay kala duduwan tahay ma isla aragteen?

Waayo ardayda xusuladoodu, cagahoodu taakooyinkoodu, talaabooyinkoodu iyo dhererka fartoodu sida baaxada jidhkoodu uu ukala duwan yahay ayay ukala duwan yihiin. Sidaas awgeed waxa la doorbidaa oo jira halbeegyo rasmi ah oo cabbirka dhererka loo isticmaalo oo qofkasta oo cabbira iyo meelkasta oo lagu cabbiro ay natiijadu mid uun tahay.

#### 4.1.1 Halbeegyada Cabbirka dhererka





B ilaa T dhererka (fogaanta) u dhaxaysaa waa 3 santi mitir mastarada dusheeda santi mitir kasta eega. Dherer marka aan cabbirayno dhererku meesha uu ka bilaabmo ilaa meesha uu ku dhamaado mastarada ayaan ku cabbiri karnaa. Dhererada gaagaaban waxaan ku cabbirnaa santi mitir. Hal santimitir toban meelood marka loo qaybiyo hal meel waxa loo yaqaanaa hal mili mitir (mm).

$$1 \text{ sm} = 10 \text{ mm}$$

$$\frac{1}{10} \text{ sm} = 10 \text{ mm ama}$$

$$0.1 \text{ sm} = 1 \text{ mm}$$

## Hawlgalka 4.2

- 1 Dhererada xariijimahan hoose mastarad ku cabbira.  
**b** **t** **j**
- 2 Dhereradan hoose mastarad ku cabbira.
  - Ballaca iyo dhererka buugtiina.
  - Ballaca iyo dhererka dheskiyaashiina.
- 3 Fasalkiina laba dhinac cabbira
- 4 Agagaarkiina geed weyn dhererka joogiisa qiyaasa inta uu noqon karo.
- 5 Gurigiina ilaa dugsigiina fogaanta u dhaxaysa qiyaasa inta ay noqon karto.
- 6 Fogaanta tartanka orodka maraatonka dhererkiisu waa imisa?
- 7 Idinkoo oo kaga bilaabaya halbeega dhererka ee ugu yar halbeegyada km, sm, mm, m horsanaan u qora.
- 8 Dhererkee ayaa weyn?  
**b** 1 km ama 100 sm    **t** 1000m ama 2 km    **j** 10 sm ama 99 mm

### HALBEEGYADA RASMIGA AH EE CABBIRKA DHERERKA

- Mili mitir (mm)
- Santi mitir (sm)
- Mitir (m)
- Kilo mitir (km)

Dhererada gaagaaban in aan santi mitir ku cabbirno waad aragteen Sidoo kale dhererada dhaadheer (sida dhinaca fasalkiina, dhererka jooga giddaaraka ; dhererka garoonka ciyaarta) waxaan ku cabbiraynaa mitir.

Shay dhererkiisu hal mitir yahay 100 meelood oo isleeg marka loo qaybiyo, halkii meel waa 1 santi-mitir.

$$1 \text{ mitir} = 100 \text{ santi mitir}$$

$$1 \text{ santi mitir} = \frac{1}{100} \text{ mitri, ama}$$

$$1 \text{ santi mitir} = 0.01 \text{ mitir}$$

Sido kale dhererada aad u dhaadheer (tusaale ahaan fogaanta hal magaalo ilaa magaalo kale u dhaxaysa) waxa lagu cabbiraa halbeega loo yaqaano kilo mitir (km).

Hal kilomitir marka 1000 meelood oo isle'eg loo qaybiyo halkii meel waa 1 mitir.

$$1 \text{ km} = 1000 \text{ mitir}$$

### 4.1.2 Isku bedelidda Halbeegyada dhererka

#### UFIIRSADA

$$1 \text{ sm} = 10 \text{ mm} \qquad 1 \text{ mm} = \frac{1}{10} \text{ sm}$$

$$1 \text{ m} = 100 \text{ sm} = 10 \times 100 = 1000 \text{ mm}$$

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

$$1 \text{ km} = 1000 \text{ m} = 100 \times 1000 = 100,000 \text{ sm} = 1,000,000 \text{ mm}$$

#### B Isku bedelidda Halbeegyada dhererka ee waa weyn oo loo bedalayo kuwa yar-yar

#### Tusaale 1

**b** 9 sm iyo 5 mm u bedal mm.

**f** 2500 m u bedal sm.

#### Jawaab

**b** 1 sm = 10 mm

$$\begin{aligned} 9 \text{ sm iyo } 5 \text{ mm} &= 9 \times 10 \text{ mm} + 5 \text{ mm} \\ &= 90 \text{ mm} + 5 \text{ mm} \\ &= 95 \text{ mm} \end{aligned}$$

Sidaas darteed 9 sm iyo 5 mm = 95 mm

**f** 1 m = 100 sm

$$\begin{aligned} 2500 \text{ m} &= 2500 \times 100 \text{ sm} \\ &= 250,000 \text{ sm} \end{aligned}$$

Sidaas darteed 2500m = 250,000 sm



**Shaqo kooxeed 1**

- b** 789 km ubeddala mitir
- t** Hal km dhaxdiisa imisa rubuc km ayaan ku jirta?

**HALBEEGA EE CABBIRKA DHERERKA SI AAN UGU BEDDALNO HALBEEG YAR WAXAAN KUDHUFANAYNAA TIRADA BEDELAHA AH**

- Sm marka aanu bedalayno mm 10 ayaan ku dhufanaynaa.
- m markaan u bedalyno sm 100 ayaan ku dhufanaynaa
- km markaan u bedalyno m 1000 ayaan ku dhufanaynaa.

**T** *Isku bedelidda Halbeegyadda dhererka ee yar-yar oo loo bedelayo kuwa waaweyn*

**T** **usaale 2**

- b** 700 mm ubeddala sm      **t** 265 sm u beddala mitir.

**Jawaab**

**b**  $10 \text{ mm} = 1 \text{ sm}$   
 $700 \text{ mm} = 70 \times 10 \text{ mm}$   
 $= 70 \times 1 \text{ sm} = 70 \text{ sm}$

Sidaas darteed,  $700 \text{ mm} = 70 \text{ sm}$

**t**  $100 \text{ sm} = 1 \text{ m}$   
 $265 \text{ sm} = 200 \text{ sm} + 65 \text{ sm} = 2 \times 100 \text{ sm} + 65 \text{ sm}$   
 $= 2 \times 1 \text{ m} + 65 \text{ sm} = 2 \times 1 \text{ m} + \frac{65}{100} \text{ m}$   
 $= 2 \text{ m} + 0.65 \text{ m}$   
 $= 2.65 \text{ m}$

Sidaas darteed,  $265 \text{ sm} = 2.65 \text{ m}$  ama  $265 \text{ sm}$

**Shaqo kooxeed**

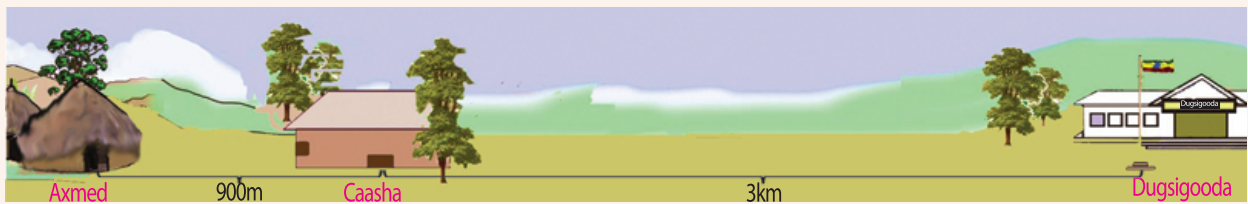
- 1** 250 km ubedala m
- 2** 78500 m u bedala km
- 3** Kee baa weyn? Idinka oo ubedalaya halbeeg isku midah isbarbardhga.
- b** 2 km ama 1990 m?      **t** 4 sm ama 39 mm?
- j** 0.75 km ama 500m?

## Laylis 4.1

- 1 mm u bedala  
**b** 5 sm **f** 120 sm iyo 5 mm **j** 2240.5 sm
- 2 sm u bedala  
**b** 127 m **f** 7,940 m iyo 25 sm **j** 9500 m iyo 50 sm
- 3 Mitir ubedala.  
**b** 625 km **f** 42 km iyo 200 m **j** 845.75 km
- 4 sm u bedala.  
**b** 3500 mm **f** 57240 mm **j** 1,000,000 mm
- 5 mitir u bedala.  
**b** 3500 sm **f** 5720 sm **j** 124,750 sm
- 6 km u bedala.  
**b** 780,000 m **f** 700,000 sm **j** 32500 m
- 7 Idinka oo adeegsanaya calaamadaha '>', '<' ama '=' isbarbardhiga.  
**b** 40 km  4500 m **f** 12,000 mm  12 m  
**j** 300,000 sm  3.5 km **x** 400,500 m  401 km  
**kh** 50,000 m iyo 50 sm  50 km iyo 50 m  
**d** 75,000 km iyo 750 m  75,000.75 km

## 4.1.3 Isugeynta Halbeegyada Dhererka

## Hawlgalka 3



Sida sawirka lagu muujiyay Axmed iyo Caasha guryahoodu isku dhinac ayay ka xigaan dugsigooda.

- Guriga Axmed iyo dugsiga foogaanta udhaxaysa waa 3 km iyo 700 m.
- Foogaanta u dhaxaysa guriga Caasha iyo dugsiga waa 800 m.

Guriga caasha iyo dugsiga foogaanta udhaxaysa waa imisa?

- b** mitir marka lagu xisaabiyo **f** kiilomitir marka lagu xisaabiyo.

## Tusaale 12

Isugeeya

$$\begin{array}{r} \text{b} \quad 675 \text{ mm} \\ + 325 \text{ mm} \\ \hline \end{array} \qquad \begin{array}{r} \text{f} \quad 3647 \text{ m} \\ + 4353 \text{ m} \\ \hline \end{array}$$

$$\text{j} \quad 212 \text{ m iyo } 50 \text{ sm} + 978 \text{ iyo } 75 \text{ sm}$$

$$\text{x} \quad 800 \text{ km iyo } 850 \text{ sm} + 37 \text{ km iyo } 650 \text{ m.}$$

### Jawaab

$$\begin{array}{r} \text{b} \quad 675 \text{ mm} \\ + 325 \text{ mm} \\ \hline 1000 \text{ mm} \end{array} \qquad \begin{array}{r} \text{f} \quad 3647 \text{ m} \\ + 4353 \text{ m} \\ \hline 8000 \text{ m} \end{array}$$

$$\begin{aligned} \text{j} \quad 212 \text{ m iyo } 50 \text{ sm} + 978 \text{ m iyo } 75 \text{ sm} \\ = 21200 \text{ sm} + 50 \text{ sm} + 97800 \text{ sm} + 75 \text{ sm} \end{aligned}$$

Marka halbeeg isku nooc ah loo bedalo.

$$\begin{aligned} &= 21250 \text{ sm} + 97875 \text{ sm} \\ &= 119125 \text{ sm} = 1191 \text{ m iyo } 25 \text{ sm} \\ &= \underline{1191.25 \text{ m}} \end{aligned}$$

Sidaas darteed, wadartu waa 119,125 sm ama 1191 m iyo 25 sm.

$$\begin{aligned} \text{x} \quad 800 \text{ km } 850 \text{ m} + 37 \text{ km } 650 \text{ m} \\ = 800,000 \text{ m} + 850 \text{ m} + 37,000 \text{ m} + 650 \text{ m} \end{aligned}$$

Marka halbeeg isku nooc ah loo badalo.

$$\begin{aligned} &= 838,500 \text{ m} = 838 \text{ km iyo } 500 \text{ m} \\ &= 838.5 \text{ km} \end{aligned}$$

## 4.1.4 Kalagoynta Halbeegyada Dhererka

### Hawlgalka 4

Aala sonkor dhererkiisu yahay 1 m iyo 25 sm haddii laga gooyo 50 sm dhererka aala sonkorka soo hadhay waa imisa.

## Tusaale 5

Kalagooya

$$\text{b} \quad 107 \text{ km } 800 \text{ m} - 29 \text{ km } 50 \text{ m}$$

$$\text{f} \quad 2,448 \text{ m } 85 \text{ sm} - 1,400 \text{ m } 60 \text{ sm}$$

$$\text{j} \quad 2,008 \text{ sm } 2 \text{ mm} - 972 \text{ sm } 8 \text{ m}$$

**Jawaab**

$$\begin{aligned}
 \text{b} \quad & 107 \text{ km iyo } 800 \text{ m} - 29 \text{ km } 950 \text{ m} \\
 & = 107 \times 1000 \text{ m} + 800 \text{ m} - (29000 \text{ m} + 950 \text{ m}) \\
 & = 107800 \text{ m} - 29950 \text{ m} = 77850 \text{ m} \\
 & = \underline{77 \text{ km } 850 \text{ m}}
 \end{aligned}$$

Sidaas darteed, natiijada kala goyntu waa 77,850 m ama 77 km iyo 850. Sidaas darteed natiijada kala goyntu waxay noqon 77 km iyo 850 m.

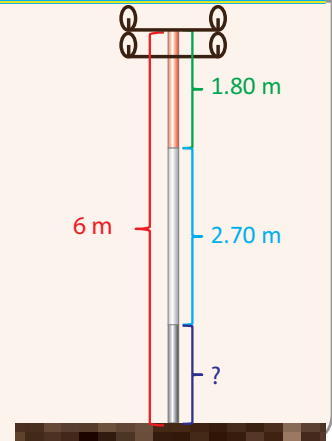
$$\begin{aligned}
 \text{f} \quad & 2448 \text{ m } 85 \text{ sm} - 1400 \text{ m } 60 \text{ sm} \\
 & = 244,800 \text{ sm} + 85 \text{ sm} - (140000 \text{ sm} + 60 \text{ sm}) \\
 & = 244,885 \text{ sm} - 140,060 \text{ sm} \\
 & = 244,885 \text{ sm} - 140,060 \text{ sm} \\
 & = 104,825 \text{ sm} = \underline{1048.25 \text{ m}}
 \end{aligned}$$

$$\begin{aligned}
 \text{j} \quad & 2008 \text{ sm } 2 \text{ mm} - 972 \text{ sm } 8 \text{ mm} \\
 & = 20,080 \text{ mm} + 2 \text{ mm} - 9,720 \text{ mm} + 8 \text{ mm} \\
 & = 20,082 \text{ mm} - 9,728 \text{ mm} \\
 & = 20,082 \text{ mm} - 9,728 \text{ mm} = 10,354 \text{ mm} \\
 & = \underline{1035.4 \text{ sm}}
 \end{aligned}$$

**Shaqo kooxeed**

Tiirka laydh tiriiga oo uu dhererkiisu yahay 6m waxaa lagu qalimeeyay rangiyo 3 midab ah. Qayb 1 m iyo 80 sm ah waxaa lamariyay casaan. Qayb 2 m iyo 70 sm waxaa lamariyay cadaan. Qaybta kale ee hadhay waxaa lamariyay madow.

- b** Qaybta casaanka iyo cadaanka lamariyay dhererkeedu waa imisa?
- f** Qaybta ranjiga madowga lamariyay dhererkeedu waa imisa?

**Laylis 4.2**

- 1** Isugeeya
- b**  $66 \text{ sm} + 2 \text{ mm} + 14 \text{ sm iyo } 6 \text{ mm}$       **f**  $572 \text{ m } 72 \text{ sm} + 172 \text{ m } 88 \text{ sm}$
- j**  $1674 \text{ km } 400 \text{ m} + 476 \text{ km } 920 \text{ m}$
- 2** Kalagooyo
- b**  $135 \text{ sm } 6 \text{ mm} - 81 \text{ sm } 2 \text{ mm}$       **f**  $72 \text{ m } 30 \text{ sm} - 27 \text{ m } 72 \text{ sm}$
- j**  $710 \text{ m } 62 \text{ sm} - 579 \text{ m } 49 \text{ sm}$

- 3 Daaqad dhar ah oo uu dhererkeedu yahay 20m waxaa laga gooyay oo la iibiyay dhar dhererkiisu yahay 2m iyo 35 sm. Imisa ayaa hadhay?
- 4 Tiirka layd tiriiga oo uu dhererkiisu yahay 12m ayaa markii la dhidbayay dhulka oo loogu aasay dherer 1m iyo 65 sm. Tiirka dhererkiisa dhulka ka sareeya waa imisa.
- 5 Dhool dhererkeedu waa 1 m iyo 58 sm. Hibo, dhool ayay in 60 sm ah kagaaban tahay. Hibo dhererkeedu waa imisa?

## 4.2 CABBIRAADDA CULAYSKA



Casharadiinii xisaabta ee fasalka 3<sup>aad</sup> sida culayska loo cabbiro waad ku soo barateen. Si ad u xasuusatiin bal indinka oo koox koox ah ka shaqeeya hawlgalkan hoose.

### Hawlgalka 4.5

- 1 Qalabyada loo adeegto cabbiraada culayska nocyahooda tafatira.
- 2 Halbeegyada cabbiraada culayska tafatira.
- 3 **b** Ardaykastaa culayskiisa ha sheego.
  - t** Hal ugaxda (ukunta) digaagada culayskeedu intee ayay noqon?
  - j** Hal kiintal oo galay ah culayskiisu waa imisa?
  - x** 10 kiintal oo qamadin ah culayskoodu waa imisa kiiloogaraam?

Waxyaalaha fudud waxaa lagu cabbiraa giraam. Waxyaalaha u culayskoodu dhax dhaxaadka yaha waxaa lagu cabbiraa kiilogiraam waxyaalaha aad u culusna waxaa lagu cabbiraa kiintal.

Halbeegyadan cabbiraada culayska si aan isugu bedbedali karno waxa loo baahan yahay in fiiro gaar ah loo yeesho sharraxaan hoose.

$$1 \text{ kg} = 1000 \text{ g}$$

$$1 \text{ kiintal} = 100 \text{ kg}$$

$$1 \text{ kiintal} = 100 \times 1000 \text{ g} = 100,000 \text{ g}$$

Sidoo kale ufiirsada kuwan hoose

$$1 \text{ tan} = 10 \text{ kiintal}$$

$$1 \text{ tan} = 10 \times 100 = 1000 \text{ kg}$$

Waxay na inoo cadaynaysaa in tanku uu sida giraamka iyo kiiloogiraamka u yahay halbeeg cabbiraada culayska loo isticmaalo.

### 4.2.1 Iskubedelidda halbeegyada culayska ee waa weyn oo loo bedalayo kuwa yar-yar

#### Hawlgalka 6

Beer qodaal bunka ka tacbada ayaa tacbaday 4.5 tan oo bun ah. Tacab soo saarkiisu.

**b** Waa imisa kiintaal?

**f** Waa imisa kiilo giraam?

#### Tusaale

Giraam ubeddala

**b** 5 kg

**f** 8 kg iyo 250 g

**j** 3 kiintaal

**x**  $\frac{1}{2}$  ton

#### Jawaab

**b** 1 kg = 1000 g

$$5 \text{ kg} = 5 \times 1000 \text{ g} = 5000 \text{ g}$$

Sidaas darteed, 5 kg = 5000 g

**f** 8 kg iyo 250 g = 8 kg + 250 g

$$= 8 \times 1000 \text{ g} + 250 \text{ g} = 8000 \text{ g} + 250 \text{ g}$$

$$= \underline{8250 \text{ g}}$$

**j** 1 kiintaal = 100 kg = 100,000 g

$$3 \text{ kiintaal} = 3 \times 100 \text{ kg} = 300 \text{ kg} = 300 \times 1000 \text{ g}$$

$$= \underline{300,000}$$

Sidaas darteed, 3 kiintaal = 300,000 g

**x** 1 tan = 10 kiintaal = 1000 kg = 100,000 g

$$\frac{1}{2} \text{ tan} = \frac{10}{2} \text{ kiintaal} = 5 \text{ kiintaal}$$

$$= 5 \times 100 \text{ kg} = 500 \text{ kg} = 500 \times 1000 \text{ g}$$

$$= 500,000$$

Sidaas darteed,  $\frac{1}{2}$  tan = 500,000

### 4.2.2 Iskubedelidda halbeegyada culayska ee yar-yar oo loo bedalayo kuwa waa weyn

#### Hawlgalka 7

Arday ayuu culays kiisu yahay 42,000 g. Ardaygan culayskiisu waa imisa kiilogiraam?

## Tusaale 10

- b** 7500 kg u beddala kiintaal      **t** 3000 kg u beddala tan  
**j** 85 kiintaal u beddala tan      **x** 500,000 giraam u bedala kintaal.

### Jawaab

- b**  $7500 \text{ kg} = 75 \times 100 \text{ kg} = 75 \times 1 \text{ kiintaal} = 75 \text{ kiintaal}$   
**t**  $3000 \text{ kg} = 30 \times 1000 = \text{kg} = 30 \times 1 \text{ tan} = 30 \text{ tan}$   
 Sidaas darteed  $3000 \text{ kg} = 30 \text{ tan}$   
**j**  $85 \text{ kiintaal} = 80 \text{ kiintaal} + 5 \text{ kiintaal}$   
 $= 8 \times 10 \text{ kiintaal} + \frac{10}{2} \text{ kiintaal} = 8 \times 1 \text{ tan} + \frac{1}{2} \text{ tan}$   
 $= 8.5 \text{ tan}$   
**x**  $500,000 \text{ g} = 5 \times 100,000 \text{ g} = 5 \times 1 \text{ kiintaal} = 5 \text{ kiintaal}$

### Laylis 4.3

- 1** Giraam u beddala  
**b** 3 kg      **t** 4 kg iyo 650 g      **j** 5 kg iyo 105 g  
**x** 6 kg iyo 0 g      **kh** 1 kiintaal      **d** 1 tan
- 2** Kg u beddala  
**b** 2000 g      **t** 2500 g      **j** 3.5 tan  
**x** 75 kiintaal      **kh** 8.5 kiintaal      **d** 100 tan
- 3** Cabbiradan soo socda kee baa noqon kara culayska hal ugaxda digaagada?  
**b** 1 g      **t** 50 g      **j** 500 g
- 4** Cabbiradan hoose kee baa noqon kara nin weyn culayskiisa?  
**b** 77 g      **t** 7 g      **j** 77 kg
- 5** Cabbiradan hoose keebaa noqon kara culayska ilmuhu (cunugu) marka u dhasho.  
**b** 3 g      **t** 15 g      **j** 200 g

### 4.2.3 Isugeynta Halbeegyada culayska

#### Hawgalka 8

Gaadhiga xamuulka oo madhan culayskiisu waa 55,000 kg. Gaadhiga alaabta lagu raray haddii ay tahay 110 kiintaal, dhamaan culayska gaadhiga iyo alaabta lagu raray culayskoodu waa imisa? Marka lagu cabbiro

- b** kg      **t** kiintaal      **j** tan



## Tusaale 11

Cabdi wananka inta uu naaxiyo ayuu iibiyaa. Afar bilood horteed wan uu iibsaday culayskiisu wuxuu ahaa 21 kg. Imika culayska wanka waxaa la arkay in uu ka batay 7 kg iyo 500 g inta marka hoore ahaa. Culayska wanku imika waa imisa?

### Jawaab

Waxa la ogyahay: 4 bilood horteed culayska wanka = 21 kg

Wanku culayska ku biiray = 7 kg iyo 500 g

Waxaa la raadinayaa: Culayska wanku imika inta u yahay = ?

Imika culayska wanku = culayskiisii hore + culayska ku biiray

$$= 21 \text{ kg} + 7 \text{ kg iyo } 500 \text{ g} = 28 \text{ kg} + 500 \text{ g}$$

$$= 28 \text{ kg iyo } 500 \text{ g}$$

## Tusaale 12

Isugeeya

$$\begin{array}{r} \text{b} \quad 275 \text{ g} \\ + 720 \text{ g} \\ \hline \end{array}$$

$$\begin{array}{r} \text{f} \quad 30,600 \text{ kg} \\ + 42,900 \text{ kg} \\ \hline \end{array}$$

$$\begin{array}{r} \text{j} \quad 72 \text{ kg iyo } 850 \text{ g} \\ + 132 \text{ kg iyo } 900 \text{ g} \\ \hline \end{array}$$

### Jawaab

$$\begin{array}{r} \text{b} \quad 275 \text{ g} \\ + 720 \text{ g} \\ \hline 995 \text{ g} \end{array}$$

$$\begin{array}{r} \text{f} \quad 30,600 \text{ kg} \\ + 42,900 \text{ kg} \\ \hline 73,500 \text{ kg} \end{array}$$

$$\begin{array}{r} \text{j} \quad 72 \text{ kg } 850 \text{ g} \\ + 132 \text{ kg } 900 \text{ g} \\ \hline 205 \text{ kg } 750 \text{ g} \end{array}$$

### Laylis 4.4

1 Isugeeya

$$\begin{array}{r} \text{b} \quad 780 \text{ ton} \\ + 539 \text{ ton} \\ \hline \end{array}$$

$$\begin{array}{r} \text{f} \quad 14,472 \text{ kg} \\ + 1,998 \text{ kg} \\ \hline \end{array}$$

$$\begin{array}{r} \text{j} \quad 123 \text{ kg } 650 \text{ g} \\ + 1,478 \text{ kg } 350 \text{ g} \\ \hline \end{array}$$

$$\begin{array}{r} \text{x} \quad 27,890 \text{ kg } 500 \text{ g} \\ + 9,870 \text{ kg } 500 \text{ g} \\ \hline \end{array}$$

$$\begin{array}{r} \text{kh} \quad 2,780 \text{ kg } 650 \text{ g} \\ + 872 \text{ kg } 815 \text{ g} \\ \hline \end{array}$$

$$\begin{array}{r} \text{d} \quad 320 \text{ kiintaal} \\ + 180 \text{ kiintaal} \\ \hline \end{array}$$

2 Culayska Faadumo wuxuu 5 kg ka badan yahay culayska walaasheed Waris. Waris culayskeedu haddii uu yahay 46 kg. Faadumo culayskeedu waa imisa?

3 Aamina gurigeeda waxa u yaalay oo ay haysatay 2 kg iyo 500 g oo sonkor ah. Suuqa waxay ka soo iibsatay sonkor dheeraad oo ah 4 kg iyo 500 g Aamina dhamaan inta sonkor ah ee ay haysataa waa imisa?

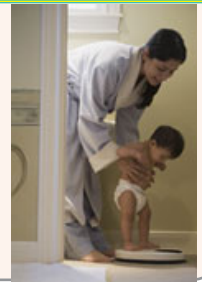
4 Boorsad alaabta lagu qaato culayskeedu waa 690 g. Alaabta boorsada ku jirta culayskeedu haddii uu yahay 5 kg iyo 700g dhamaan culayska boorsadu iyo alaabta ku jirtaa waa imisa.



## 4.2.4 Kalagoynta Halbeegyada Culayska

### Hawlgalka 4.9

Hooyo ayaa iyada oo ilmaheeda xanbaarsan ismiisaantay, waxay na culayskoodu noqday 70 kg. Ilmaha kaligii miisaankiisu wuxuu noqday 4.5 kg. Culayska hoyada kaligeed waa imisa?



### Tusaale 13

Kalagooya

$$\begin{array}{r} \mathbf{b} \quad 600 \text{ g} \\ - 370 \text{ g} \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{t} \quad 6 \text{ kg } 400 \text{ g} \\ - 2 \text{ kg } 900 \text{ g} \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{j} \quad 224 \text{ kg } 150 \text{ g} \\ - 123 \text{ kg } 600 \text{ g} \\ \hline \end{array}$$

Jawaab

$$\begin{array}{r} \mathbf{b} \quad 600 \text{ g} \\ - 370 \text{ g} \\ \hline 230 \text{ g} \end{array}$$

$$\begin{array}{r} \mathbf{t} \quad 6 \text{ kg } 400 \text{ g} \\ - 2 \text{ kg } 900 \text{ g} \\ \hline 3 \text{ kg } 500 \text{ g} \end{array}$$

$$\begin{array}{r} \mathbf{j} \quad 224 \text{ kg } 150 \text{ g} \\ - 123 \text{ kg } 600 \text{ g} \\ \hline 100 \text{ kg } 550 \text{ g} \end{array}$$

### Laylis 4.5

Kalagooya

$$\mathbf{1} \quad \begin{array}{r} \mathbf{b} \quad 539 \text{ g} \\ - 378 \text{ g} \\ \hline \end{array}$$

$$\mathbf{t} \quad \begin{array}{r} 472 \text{ kg} \\ - 378 \text{ kg} \\ \hline \end{array}$$

$$\mathbf{j} \quad \begin{array}{r} 4 \text{ kg } 350 \text{ g} \\ - 2 \text{ kg } 650 \text{ g} \\ \hline \end{array}$$

$$\mathbf{x} \quad \begin{array}{r} 4 \text{ kg } 350 \text{ g} \\ + 2 \text{ kg } 650 \text{ g} \\ \hline \end{array}$$

$$\mathbf{kh} \quad \begin{array}{r} 32 \text{ kiintaal } 25 \text{ kg} \\ - 12 \text{ kiintaal } 30 \text{ kg} \\ \hline \end{array}$$

$$\mathbf{d} \quad \begin{array}{r} 16 \text{ tan } 6 \text{ kiintaal} \\ - 6 \text{ tan } 7 \text{ kiintaal} \\ \hline \end{array}$$

$$\mathbf{r} \quad \begin{array}{r} 24 \text{ tan } 4 \text{ kiintad} \\ - 9 \text{ tan } 9 \text{ kiintaal} \\ \hline \end{array}$$

- 2** Daasad malab ku jiro ayaa culayskeedu yahay 1500 g. Culayska daasadu haddii uu 350 g noqdo culayska malabka oo kaligiis waa imisa?
  - 3** 60 kg oo sonkor ah haddii 10 kg iyo 250 g laga iibiyo imisa sonkor ah ayaa soo hadhi?
  - 4** Gaadhiga xamuulka ayaa culayska gaadhiga iyo alaabta ku raran noqday 60 tan iyo 5 kiintaal. Alaabta lagu raray culayskeedu haddii ay tahay 105 kiintaal culayska gaadhigu imisa?
- b** Kg ayuu noqon?      **t** Tan ayuu noqon?

## 4.2.5 Isbarbardhigidda halbeegyada culayska

### Hawlgalka 4.10

Khadiija 25 kg Saynaba  $\frac{1}{2}$  kiintaal, Barni na 15,000g oo qamadin ah ayay suuqa u iib geeyeen

- b** tee baa qamadin badan iibisay?
- t** tee baa qamadin yar iibisay?
- j** baaxada culayska ka yar ilaa ka weyn horsanaan u dhiga.

### Tusaale 15

Idinka oo adeegsanaya  $>$ ,  $<$  ama  $=$  isbarbardhiga.

- b** 1700 g \_\_\_\_\_ 2 kg
- t** 2 tan \_\_\_\_\_ 19 kiintaal
- j** 1 tan 1 kiintaal \_\_\_\_\_ 1100 kg

#### Jawaab

- b** 2 kg = 2000 g  
1700 g < 2000 g
- t** 2 tan = 20 kiintaal  
20 kiintaal  $\boxed{>}$  19 kiintaal  
Sidaas darteed 2 tan  $\boxed{>}$  19 kiintaal
- j** 1 tan 1 kiintaal = 11 kiintaal  
11 kiintaal = 1100 kg  
1 tan 1 kiintaal = 1100 kg  
Sidaas darteed 1 tan 1 kiintaal  $\boxed{=}$  1100 kg

### Laylis 4.6

- 1** Ka yar ilaa ka weyn horsanaan u qora.
  - b** 27000 g, 26.5 kg, 25 kg iyo 990 g
  - t** 300 kiintaal 50 kg, 29 kg 50 kg, 28500 g
  - j** 30 tan iyo 7 kiintaal, 300 kiintaal, 29 ton 6 kiintaal
- 2** Waxyaalaha culaysyadooda hoos lagu tilmaamay horsanaan ka weyn ilaa ka yar u qora.
  - b** 5 kg cudbi , 4500 g niis , 5.5 kg bun
  - t** 20 kiintaal, hadhudh, 3 tan qamadin, 2500 kg galay
- 3** Idinka oo adeegsanaya  $>$ ,  $<$  ama  $=$  isbarbardhiga
  - b** 1 tan \_\_\_\_\_ 1000 kg
  - t** 200 kg \_\_\_\_\_ 2.5 kiintaal
  - j** 10000g \_\_\_\_\_ 1 kiintaal
  - x** 20 tan 9 kintaal \_\_\_\_\_ 20899 kg

### 4.3 CABBIRAADA MUGGA DAREERAHA



#### Hawlgalka 4.11

- 1 Idinka oo adeegsanaya faldhaanka (malqaacada) lagu cunteeyo biyo ku dhura koob. Imisa faldhaan (malqaacadood) oo biyo ah ayaa koobka buuxin.
- 2 Koob idinka oo adeegsanaya biyo ku dhura dhalo. Imisa koob oo biyo ah ayaa dhalada buuxin?
- 3 Dhalo idinka oo adeegsanaya biyo ku dhura baaldi. Imisa dhalo oo biyo ah ayaa baaldiga buuxin.

Hawlgalka ad korka ka soo shaqayseeni waxay ahayd cabbirada qaadka ama mugga dareeraha. Heerka fasalkan afaraad halbeegyada cabbiraada qaadka ama mugga ee aad ku baranaysiin, waxa la yidhaahdaa Litir (ℓ) iyo mililitir (ml). Marka an cabbirayno, shay uu qaadkiisu (mugiisu) weyn yahay waxaan ku isticmaalay-naa litir. Sidoo kale marka an cabbirayno shay uu qaadkiisu yar yahay waxaan isticmaalaynaa mililitir.

#### UFIIRSAADA:

Si aad uga qiyaas qaadatiin oo isla markaana aad fikrad uga yeelatiin halbeegyada lagu cabbiro qaadka (mugga) waxaa hoosten lagu dhigay tirooyin u dhaweyn ah.

- 1 baaldi dhaxdhaxaad ah  $\approx$  20 litir
- 1 malqaacada cuntada  $\approx$  10 ml.
- 1 koob dhaxdhaxaad ah  $\approx$  200 ml
- 1 malqaacada shaaha  $\approx$  5 ml.
- 1 dhalada kookada  $\approx$  330 ml
- 1 barmiil  $\approx$  200 litir.

#### Hawlgalka 4.12

Halbeega ku haboon cabbirka mugga sheega (litir ama mili litir).

- |   |                      |   |                       |
|---|----------------------|---|-----------------------|
| 1 | hal koob oo caana ah | 2 | Hal dhalo cadar ah    |
| 3 | hal jalxada biyaha   | 4 | Barkada lagu dabaasho |
| 5 | hal hanta biyaha     |   |                       |

### 4.3.1 Isku bedalidda halbeegyada Qaadka (mugga)

#### Tusaale 1

Mili litir u bedala

**b**  $2 \ell$

**f**  $3 \ell 500 \text{ ml}$

**j**  $4.5 \ell$

#### Jawaab

**b**  $1 \ell = 1000 \text{ ml}$

$$2 \ell = 2 \times 1000 \text{ ml} = \underline{2000 \text{ ml}}$$

Sidaas darteed,  $2 \ell = 2000 \text{ ml}$

**f**  $3 \ell$  iyo  $500 \text{ ml} = 3 \times 1000 \text{ ml} + 500 \text{ ml}$

$$= 3000 \text{ ml} + 500 \text{ ml} = \underline{3500 \text{ ml}}$$

**j**  $4.5 \ell = 4 \text{ litir} + 0.5 \text{ litir}$

$$= 4 \times 1000 \text{ ml} + \frac{1}{2} \text{ litir}$$

$$= 4000 \text{ ml} + 500 \text{ ml} = \underline{4500 \text{ ml}}$$

Sidaas darteed,  $4.5 \ell = 4500 \text{ ml}$

#### Tusaale 18

Litir ubedala

**b**  $6000 \text{ ml}$

**f**  $265500 \text{ ml}$

**j**  $975000 \text{ ml}$

#### Jawaab

**b**  $1 \ell = 1000 \text{ ml}$

$$6000 \text{ ml} = 6 \times 1000 \text{ ml}$$

$$= 6 \times 1 \ell = \underline{6 \ell}$$

Sidaas darteed,  $6000 \text{ ml} = 6 \ell$

**f**  $265,500 \text{ ml} = 265,000 \text{ ml} + 500 \text{ ml}$

$$= 265 \times 1000 \text{ ml} + \frac{1000}{2} \text{ ml}$$

$$= 265 \times 1 \ell + \frac{1}{2} \ell = 265 + \frac{1}{2} \ell = \underline{265.5 \ell}$$

Sadaas darteed,  $265000 \text{ ml} = 265.5 \ell$

$$\begin{aligned} \text{j} \quad 975,000 \text{ ml} &= 975 \times 1000 \text{ ml} \\ &= 975 \times 1 \text{ l} = \underline{975 \text{ l}} \end{aligned}$$

Sidaas darteed,  $975000 = 975 \text{ l}$

Litir ka marka mili litir loo badalayo 1000 ayaa lagu dhuftaa.

### Laylis 4.7

1 Dhamaystira

$$\text{b} \quad 7 \text{ l} = \underline{\hspace{2cm}} \text{ ml}$$

$$\text{t} \quad 25000 \text{ ml} = \underline{\hspace{2cm}} \text{ l}$$

$$\text{j} \quad 10.5 \text{ l} = \underline{\hspace{2cm}} \text{ ml}$$

$$\text{x} \quad 978000 \text{ ml} = \underline{\hspace{2cm}} \text{ l}$$

$$\text{kh} \quad 250 \text{ l } 750 \text{ ml} = \underline{\hspace{2cm}}$$

$$\text{d} \quad 250250 \text{ ml} = \underline{\hspace{2cm}} \text{ l}$$

2 Imisa

**b** nus litir ayaa 1 litir noqda.

**t** rubuc litir ayaa 1 litir noqda.

**j** hal tobanlay oo litir ayaa 1 litir noqda.

**x** hal boqolay hal oo litir ayaa 1 litir noqda.

3 **b** hal rubuc litir imisa mili litir ayuu noqon?

**t**  $\frac{1}{10}$  litir imisa mili litir ayuu noqon?

**j**  $\frac{1}{100}$  litir imisa mili litir ayuu noqon?

4 Litiradan hoose imisa jeer oo min nus litir ah ayaa ku jirta?

**b** 2 l

**t** 3 l

**j** 7 l

**x** 10 l

5 Litiradan hoose imise jeer oo min rubuc litir ah ayaa ku jirta?

**b** 1 l

**t** 2.5 l

**j** 3.75 l

**x** 10 l

Isugeynta iyo kalagoynta halbeegyada qaadka (mugga)

## Tusaale 19

Isugeeya

$$\begin{array}{r} \text{b} \quad 3870 \text{ l} \\ + 9824 \text{ l} \\ \hline \end{array}$$

$$\begin{array}{r} \text{t} \quad 3870 \text{ l } 800 \text{ ml} \\ + 9824 \text{ l } 500 \text{ ml} \\ \hline \end{array}$$

$$\begin{array}{r} \text{j} \quad 340.5 \text{ l} \\ + 786.8 \text{ l} \\ \hline \end{array}$$

Jawaab

$$\begin{array}{r} \text{b} \quad 3870 \text{ l} \\ + 9824 \text{ l} \\ \hline 13,694 \text{ l} \end{array}$$

$$\begin{array}{r} \text{t} \quad 3870 \text{ l } 800 \text{ ml} \\ + 9824 \text{ l } 500 \text{ ml} \\ \hline 13,695 \text{ l } 300 \text{ ml} \end{array}$$

$$\begin{array}{r} \text{j} \quad 340.5 \text{ l} \\ + 786.8 \text{ l} \\ \hline 827.3 \text{ l} \end{array}$$



## Jawaab

<b>b</b>	$10 \ell \leq 15 \ell$	➤	Halbeeg isku mid ah haddii ay leeyhiin, tirooyinka oo la isbarbar dhigo ayaa ku filan.
<b>f</b>	$10 \ell \geq 1000 \text{ ml}$	➤	Waa in aan halbeegyadooda nooc isku mid ah u bedalnaa. $10 \ell = 10 \times 1000 \text{ ml} = 10,000 \text{ ml}$ $10,000 \text{ ml} > 1000 \text{ ml}$
<b>j</b>	$2 \ell 750 \text{ ml} \leq 3 \ell$	➤	Waa inaan halbeegyada nooc isku mid ah u bedalnaa $2,750 \text{ ml} < 3000 \text{ ml}$
<b>x</b>	$12.3 \ell \geq 12.25 \ell$	➤	Tirooyinka ayaan sida jajab-tobanleydu isku barbar dhigaynaa.

## Laylis 4.9

- Idinka oo adeegsanaya , '>', '<' ama '=' isharbardhiga.
 

<b>b</b>	$\frac{3}{2} \ell$ _____ 500 ml	<b>f</b>	$\frac{1}{4} \ell$ _____ 250 ml
<b>j</b>	5 ℓ _____ 600 ml	<b>x</b>	188.5 ℓ _____ 188000 ml
<b>kh</b>	10 ℓ _____ 10000 ml	<b>d</b>	950 ml _____ 1 ℓ
- Cabdulaahi wuxuu waqtiyo kala duwan naadiga bisha cas ku deeqay dhiig ah laba nus oo litir. Yoonis isna sidoo kale ayuu waqtiyo kala duwan kudeeqay 3 rubuc litir.
 

**b** Labada kee baa dhiig badan ku deeqay?

**f** Inte in le'eg ayay ku kala duwan yihiin?
- Ka yar kaga bilaaba oo ilaa kaweyn horsanaan u qora.
 

<b>b</b>	195 ℓ, 190 ℓ, 200,000 ml	<b>f</b>	1000 ℓ, 999,000 ml, 999.9 ℓ
<b>j</b>	275 ℓ 900 ml, 274 ℓ, 275.8 ℓ		

## Cutubka

# 5aad



## SHAXANNADA SALLAXA IYO KUWA ADKAHA AH

Casharadiinii xisaabta fasalka saddexaad waxaad ku soo barateen xariiqyada toosan iyo shaxanada sallaxa ee fudud. Cutubkan waxaad ku baranaysiin shaxanada sallaxa iyo shaxanada adkaha ah.

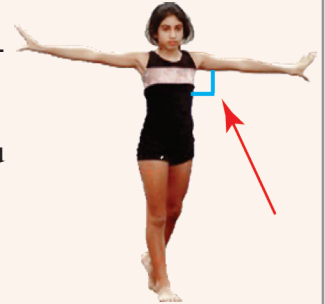
### 5.1 XAGAL QUMAN

#### 5.1.1 Soo Soocidda Xaglaha Quman

##### Hawgalka 5.1 b

Hawlgaladan hoose idinka oo laba laba (qindi) ah. Kawada xaajooda oo ka shaqeeya.

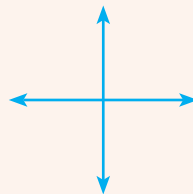
- 1 Labadiinuba sare isku taaga. Gacmihiina midkeed.  
Dhinac toos u fidiya: Gacantaad fidiseen iyo jidhkiinu xagasha ay sa-  
mee yeen qaabkeeda cadeeya
- 2 Weydiinta korka gacantaad fidiseen xusulkiina oo qudhaata toos kur u  
taaga; Gacantiina xagasha ka samaysantay qaabkeeda cadeeya.
- 3 Sabuurada cidhifyadeedu meesha ay ku kulmaan.  
Xagasha ka abuurantay qaab keeda cadeeya
- 4 Ufiirsada xariiqaha toosan ee isgoosayaasha ee hoos ku sawiran



b

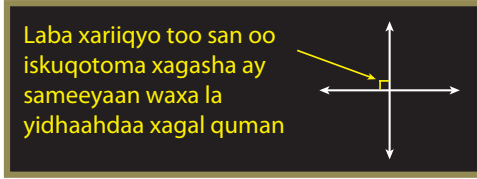


t



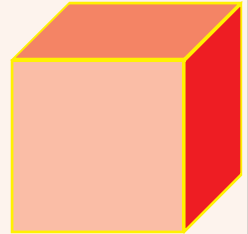
Kuwa xagal quman sameeyay waa kuwee? Kuwa 'b' mise kuwa 't'?





### Shaqa Kooxeed 5.1

- 1 Kooxo ka kooban saddex saddex ama afar afar arday intaad isku kooxaysiin kadibna idinka oo adeegsanaya sanduuq ama kaartoon u eg sawirka dhinaca midigta ku xusan su'aalahan soo socda ka jawaaba.
  - b** Kaartoonka ama sanduuqa dushiisa xariiqaha isgoysayaasha tilmaama
  - f** Sawirku ama kaartoonku imisa xaglo quman ayuu leeyahay. Falanqeeya
- 2 Xariiqaha toosan ee laba labada ah ee hoos ku sawiran kuwa xaglo quman sameeyay waa kuwee.
  - b**
  - f**
  - j**
- 3 Agagaarkiina waxyaalaha aad ku aragtiin kuwa xaglo Quman leh tilmaama

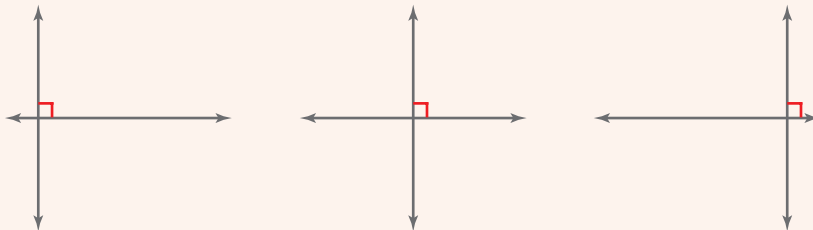
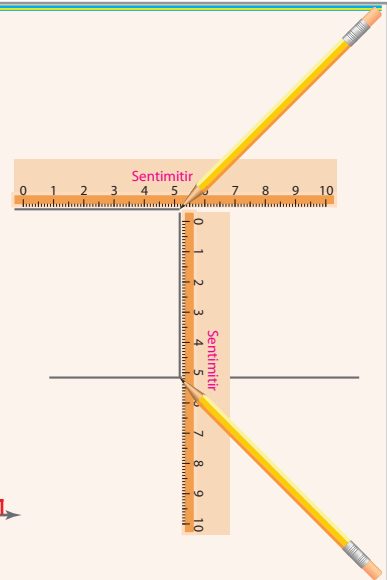


### 5.1.2 Dhisidda (Sawirista) Xaglo quman

#### Hawlgalka 5.16

Qalin qori idinka oo isticmaalaya hawlgalkan hoose ka shaqeeya oo soo bandhiga.

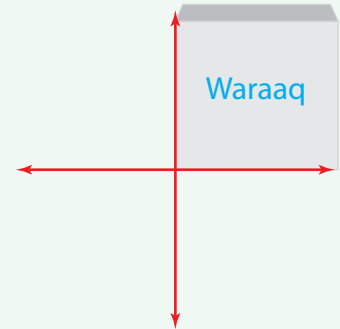
- b** Xariiq gudban sameeya
- f** Idinka oo isticmaalaya mastared, buugtina ama waraaq girgirkeeda xariiq gudban ee aad samayseen xariiq goynaya oo ku qotomsan sameeya
- j** Xariiqyadaad samayseen qaabyadan hoos ku sawiran midkood ayuu noqon karaa.



- x** Xariiq gudban iyo xariiq goynaya ee ku qotomsan xagasha ay sameeyaan maxa loo yaqaanaa?

**Laylis 5.1**

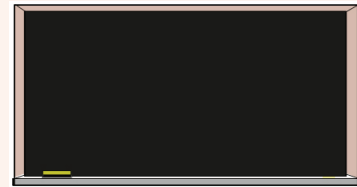
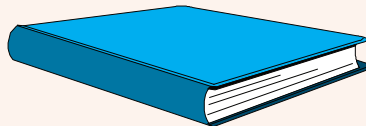
- 1 Mastarad idinka oo istiimaalaya buugtiina dusheeda xariiq toosan oo gudban ku sawira  
Xariiq gudban xariiq goynaya oo ku qotoma sameeya
  - Imisa xaglo ayaa samaysmay?
  - Xaglaha la sameeyay dhamantood in ay yihiin xaglo quman ku hubiya waraaq cidhifyadeedu meesha ay ku kulmaan idinka oo dul dhigaya oo cidhifyada ku beegaya xariiq gudban iyo ka qotomsan
- 2 Mastaradiina ama buugaagtiina cidhifyadooda idinka oo isticmaalaya xagal quman sameeya.

**5.2 BARAHA; XARIIQAHA TOOSAN IYO SALLAXYADA**

Casharkii xisaabta ee fasalka saddexaad waxaad ku soo barateen sallax dhaxdiisa xariiqaha toosan, afar-dhinaclayaasha iyo goobooyinka laga helo. Fasalkan waxaad ku baranaysiin baraha, xariiqaha toosan iyo sallaxyadu waxay yihiin iyo xidhiidhkooda, gaarahaan xariiqdu meesha ay kaga dhacdo (taallo) sallaxa.

**Hawlgalka 5.2 b**

Dhulka dushiisa, miiska dulkiisa saburada dulkeeda iyo ku la mid ah uffirsada.



Qodobadan hoose idinka oo koox koox ah ka wada xaajooda.

- 1 Agagaarkiina waxyaalaha lagu arko kuwa qaab dulsiman leh tilmaama.
- 2 Agagaarkiina waxyaalaha an lahayn qaab dulsiman tilmaama.

Dhulka in jiha kasta loo fidin  
kari ka fikira. Dulalkasiman  
waa kuwa metila qaybaha  
sallaxyada

**Tusaale 1**

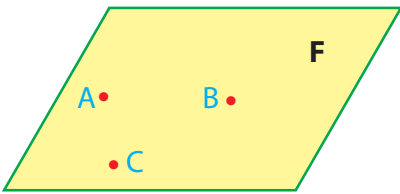
Fasalka aad wax kubaratiin afartiisa gidaar waa qaybo ka tirsan sallaxyo

**Laylis 5.2.1**

Walxaha hoos ku tilmaaman ku ah qaybo sallaxyo iyo kuwa aanan ahayn qaybo sallaxyo kala soo ca

- |                                  |                           |                           |
|----------------------------------|---------------------------|---------------------------|
| <b>1</b> saqafka guriga          | <b>2</b> Muraayad         | <b>3</b> Wajiga albaabka  |
| <b>4</b> Dalaayad lakala bixiyay | <b>5</b> Garoonka kubada  | <b>6</b> Faldhaan         |
| <b>7</b> xeedho                  | <b>8</b> Warqada qoraalka | <b>9</b> Wajiyada sanduuq |
| <b>10</b> galay la tuulay        |                           |                           |

**1 Sharraxidda xidhiidhka (xidhiidh bareed/meeleed) ee ka dhexeeya baraha xariiqaha toosan iyo sallaxyada**



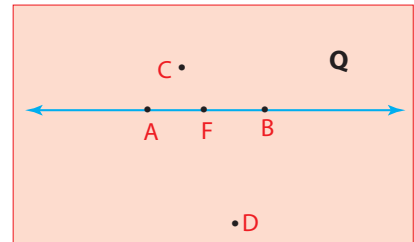
Sallaxa dushiisa xarfaha ku yaala saddex ka mid ah ama hal xaraf waa lagu magacaabi karaa.

Tusaalaahaan sallaxa dhinaca bidixda ku yaala waxaa lagu magacaabi karaa sallax ABC ama sallax F

**Tusaale 2**

Qaybaha sallaxa u fiirsada. Weydiimaha ka jawaaba

- Xariiqaha toosan AB ama  $\overleftrightarrow{AB}$  halkee ayuu ku yaalaa oo laga helaa
- Baraha A, B, C, D iyo F meesha ay ku yaaliin tilmaama.



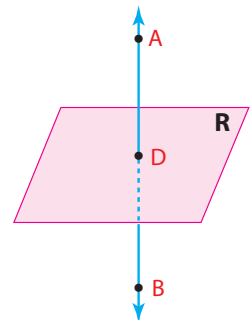
**Jawaab**

- $\overleftrightarrow{AB}$  sallaxa Q ama sallaxa ABC ayuu dul dhacaa (yaalaa) oo laga helaa.
- Baraha A, B, C, D iyo F sallaxa Q ayay ku dul dhacaan oo ay dul yaaliin.
- Barta C xariiqaha toosan  $\overleftrightarrow{AB}$  meel ka saraysa barta D xariiqaha toosan  $\overleftrightarrow{AB}$  meel ka hoosaysa ayay ku yaaliin oo laga helaa. Baraha A, F iyo B xariiqaha toosan  $\overleftrightarrow{AB}$  ayay ku dul dhacaan oo ay dul yaaliin.

**Tusaale 3**

Sawirka dhinaca midigta ku yaala u fiirsada. Kadibna su'aalaha ka jawaaba.

- Baraha A, B iyo D meelaha ay yaaliin sharraxaad ka bixiya.
- Xariiqaha toosan AB iyo sallaxa R xidhiidh meeleedka ka dhaxeeyaa waa maxay?



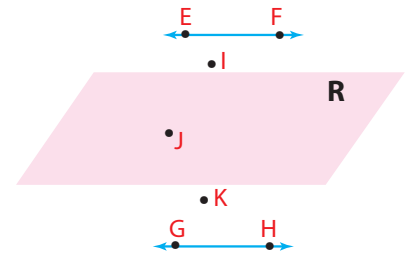
**Jawaab**

- 1 Baraha A, B iyo D waxay dul dhacaan oo ay dulyaaliin xariiqaha toosan  $\overline{AB}$  barta A meel sallaxa R ka sarraysa barta B na meel sallaxa R ka hoosaysa ayay ku yaaliin. Barta D waxay ku dul dhacdaa oo ay dul taalaa xariiqaha  $\overline{AB}$  iyo sallaxa R.
- 2  $\overline{AB}$  iyo sallaxa R waxay leeyihiin bar ay wadaagaan. Barta D waa barta ay wadaagaan

**Tusaale 4**

Sawirka dhinaca midig ku yaala u fiirsada. Kadibna ka jawaaba su'aalaha la xidhiidha xidhiidh meeleedka ka dhaxeeya, xariiqaha tooson baraha iyo sallaxa.

- 1 Sharraxaad ka bixiya xariiqaha tooson  $\overline{EF}$ ,  $\overline{GH}$  iyo sallax R xidhiidh meeleedka ka dhaxeeya.
- 2 Sharraxa xidhiidh meeleedka ka dhaxeeya baraha I, J, K xariiqaha tooson iyo sallaxa R.

**Jawaab**

- 1 Xariiqaha tooson EF wuxuu ku yaalaa meel ka sarraysa sallaxa R. Xariiqaha tooson GH wuxuu ku yaalaa meel ka hoosaysa sallaxa R.
- 2 Bart I waxay ku taalaa meel sallaxa R ka sarraysa oo isla markaana ka hoosaysa xariiqaha tooson EF. Barta J waxay dul dhacdaa oo ay dultaalaa sallaxa. Bart K waxay ku taalaa meel sallaxa R ka isla markaana xariiqaha tooson  $\overline{GH}$ .

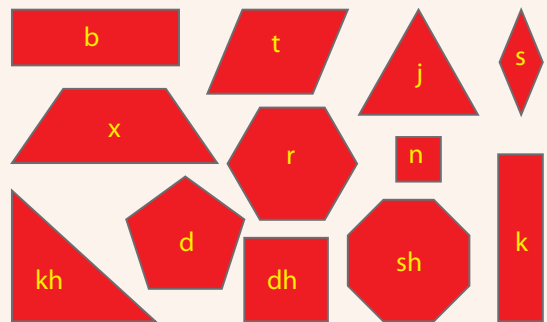
### 5.3 WAREEGA IYO BEDKA LAYDIGA IYO LABAJIBBAARANAHA

#### 1 Wareega laydiga iyo labajibbaaranaha

#### Hawlgalka 5.3b

Dhinaca midigta waxaa ku yaala shaxano sallaxeed oo kala duwan. Shaxanada markaad u fiirsatid dabadeed.

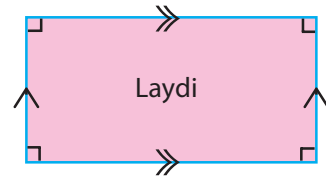
- 1 Ka sooca kuwa qaabka laydiga leh
- 2 ka Sooca kuwa qaabka laba jibbaaranaha leh
- 3 ka Sooca kuwa aanan ahayn laydi
- 4 ka Sooca kuwa aana ahayn labajibbaarane
- 5 Laydiga iyo labajibbaaranuhu waxay ku kala duwan yihiin sheega?



**UFIIRSADA**

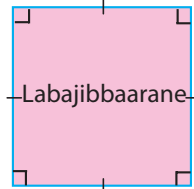
**Laydi**

- Waa afar dhinac
- Labada dhinac ee iskasoo horjeedaa waa barbaro
- Afartiisa xaglood waa xaglo quman



**Labajibbaarane**

- Waa laydi
- Afartiisa dhinac way is le'eg yihiin



1 Laydi wadarta dhererada afartiisa dhinac waxaa la yidhaahdaa Wareega laydiga.  
 2 Labajibbaarane wadarta dhererada a fartiisa dhinac waxaa la yidhaahdaa wareega labajibbaaranaha

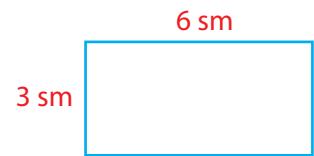
**Tusaale 1**

Laydigan hoose wareegiisa raadsha

**Jawaab**

Wareega Laydigu

$$\begin{aligned}
 &= 3 \text{ sm} + 6 \text{ sm} + 3 \text{ sm} + 6 \text{ sm} \\
 &= 3 \text{ sm} + 3 \text{ sm} + 6 \text{ sm} + 6 \text{ sm} = 2 \times 3 \text{ sm} + 2 \times 6 \text{ sm} \\
 &= 2 \times (3 \text{ sm} + 6 \text{ sm}) = 18\text{sm}
 \end{aligned}$$



Sidaas darteed, wareega laydigu waa 18sm

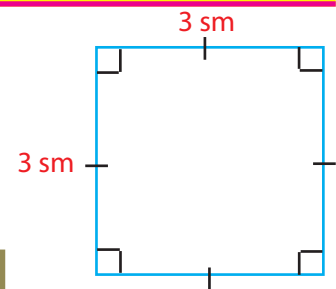
**Tusaale 2**

Wareega labajibaarnahan hoose raadsha

**Jawaab**

Labajibbaranahan wareegiisu

$$\begin{aligned}
 &= 3 \text{ sm} + 3 \text{ sm} + 3 \text{ sm} + 3 \text{ sm} \\
 &= 4 \times 3 \text{ sm} = 12\text{sm}
 \end{aligned}$$



1 Laydi u ballaciisu yahay b dhererkiisuna yahay dh wareegisu waa  $2(b + dh)$

b

dh

$w = 2(b + dh)$

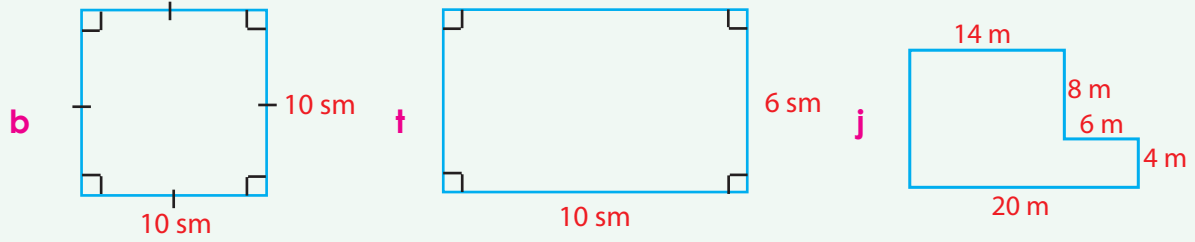
2 Lahajibbaarane dhererrka dhiniciisu yahay a wareegiisu waa  $4a$

a

$w = 4a$

## Laylis 5.3b

1 Shaxanadan hoose wareegooda raadsha



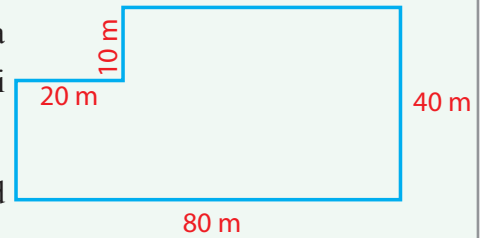
2 Garoon kubada lagu ciyaaro wuxuu leeyahay qaabka laydiga. Haddii u ballaciisu yahay 70 mitir dhererkiisuna yahay 110 mitir wareegiisu waa imisa?

3 Warshad ayaa dhulka ay ku fadhido leeyahay qaabka labajibbaarana. Dhinaca dhulkan haddii uu dhererkiisu yahay 400 mitir wareegiisu waa imisa?

4 Jago qaabka laydiga leh dhererkeedu waa 80m ballacedana waa 40m. Rukunka jagadan waxa laga gooyay laydi ballaciisu yahay 20m dhererkiisuna 10m. (eeg sawirka)

b Wareega laydiga intaanan laga goynin horteed imisa ayuu ahaa?

t Jagada soo hadhay wareegeedu waa imisa?



## 2 Bedka Laydiga iyo Labajibbaarana

### Hawlgalka 5.3b

Hawlgaladan hoose buugtiina Kaga shaqeeya

1 Sawira laydi ay dhinacyadiisu yihiin 5 sm iyo 3sm

2 Ballaca xariiqiisa gudban iyo dhererka xariiqiisa qotoma idinka oo isticmaalaya shax ay xariiqyadeedu hal hal sm isujiraan sameeya.

3 Ballaca laydiga imisa meelood oo isleeg ayaa loo qay qabiyay

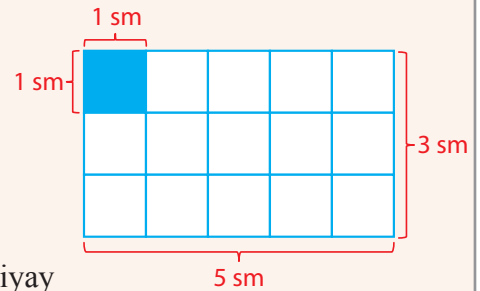
4 Dhererka laydiga imisa meelood oo isle'eg ayaa loo qay qabiyay

5 Dhinaca biddixda qaybta laydiga ee la madoobeeyay dhinacyadeedu waa imisa sm?

6 Laydiga imisa labajibbaarana yar yar ayaa loo qaybiyay?

7 Laydiga imisa labajibbaarana yar yar ayaa lagu hagoogay?


8 Ballaca iyo dhererka laydiga iskudhufta imisa ayay noqon?




**UFIIRSADA**

- Laydi Bedkiisa in la xisaabiyo waxaa la isku dhuftaa ballaciisa iyo dhererkiisa
- Halbeega bedku waa sm laba jibbaaran ama mitir laba jibbaaran

1 Laydi haddii u ballaciisu yahay  $b$  dhererkiisuna dh bedka  $B = b \times dh$  halbeeg laba jibbaaran

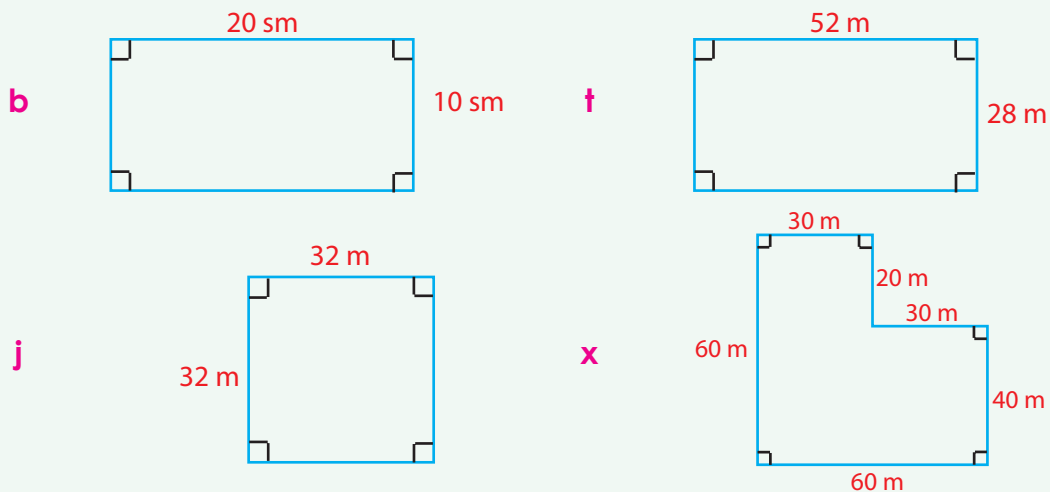


2 Labajibbaarane dhinaciisu haddii u yahay  $b$  bedku waa  $b \times b$  halbeeg laba jibaaran



**Laylis 5.3t**

1 Shaxanadan hoose bedkooda raadsha



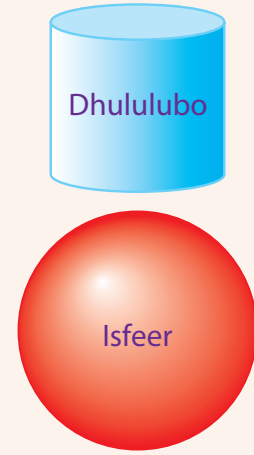
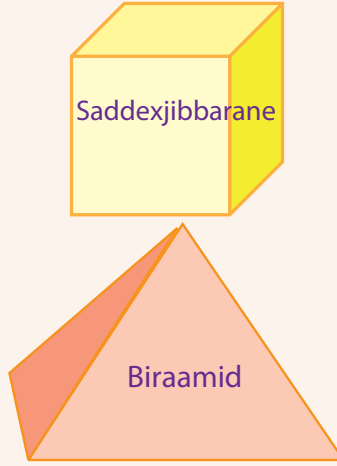
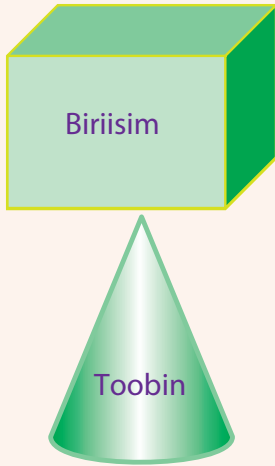
- 2 Jago leh qaabka laydiga dhererkeedu waa 20 mitir ballaceeduna waa 25 mitir. Raadsha bedkeeda.
- 3 Dhulbeereed qaabka labajibaaranaha leh dhererka dhinaciisu waa 100m. raadsha bedka dhulbeereedka
- 4 Kee baa balaadhan
  - b** Shaxan qaabka laydiga leh oo dhinacyadiisu yahay 5sm iyo 6sm mise shaxan qaabka laba jibaaranaha leh oo dhinaciisu yahay 8sm
  - t** Labajibaarane dhinaciisu yahay 6 mitir mise laydi dhinacyadiisu yihiin 7 mitir iyo 5 mitir

## 5.4 ADKEYAASHA FUDUD

### 5.4.1 Soocista qaababka adkeyaasha

#### Hawlgalka 5.4 b

1 Halkan hoose waxaa lagu siiyay sawiro adkeyaal qaabab kala duwan leh iyo magacyadooda.



2 Idinka oo koox koox ah waxyaalaha agagaarkiina laga heloo ee u eg kuwaas laba, laba tusaale siiya

#### Shaqā kooxeed 1

Walxahan hoose midkastaa adkaha uu udhigmo sheeg.

Saabuuntadharka  
daasad

qolofta kibriidka  
kubada kolyga

Caroog Gorof

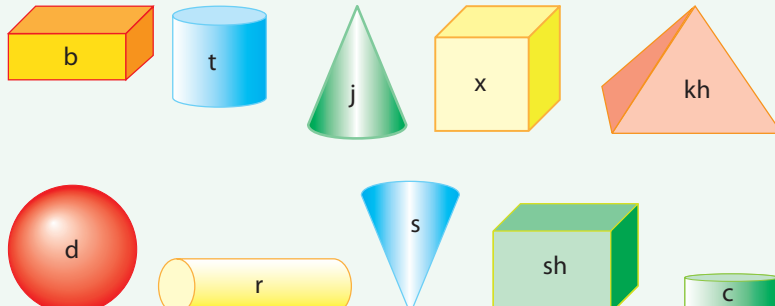
#### Laylis 5.4b

Hoostan walxaha lagu qoray adkehee ayuu u eg yahay

1 Kubada gacanta \_\_\_\_\_

2 Qasabada biyaha \_\_\_\_\_

**Fiiirriya shaxannadan hoos ku yaala** Isla markaana su'aalaha 3 ilaa 7 meelaha bannaan ku buuxiya xarfaha ku haboon





- 3 Shaxanka \_\_\_\_\_ waa saddexjibbaarane
- 4 Shaxanada \_\_\_\_\_, \_\_\_\_\_ iyo \_\_\_\_\_ waa dhululubooyin
- 5 Shaxanada \_\_\_\_\_ iyo \_\_\_\_\_ waa biriisamyo.
- 6 Shaxanada \_\_\_\_\_ iyo \_\_\_\_\_ waa toobino.
- 7 Shaxanka \_\_\_\_\_ waa biraamid.
- 8 Shaxanka d waa \_\_\_\_\_
- 9 Shaxanadan hoose ee laba labada ah waxay ku kala duwan yihiin sharraxaad ka bixiya.
  - b biriisam iyo saddex-jibbaarane      † biraamid iyo toobin
  - j dhululubo iyo toobin                      x biriisam iyo biiraamid.
- 10 Shaxanadan laba labada ah astaamaha ay wadaagaan ee ay isaga eg yihiin sharraxa.
  - b biriisam iyo saddax-jibbaarane      † biraamid iyo toobin
  - j dhululubo iyo toobin                      x toobin iy isfeer

## Tusaale 1

Biriisamka iyo dhululubadu waxyaalaha ay kukala duwan yihiin sheega.

### Jawaab

Dhululubada korka iyo hoosta waxay ku leedahay laba sal oo goobooyin ah. Biriisamku se salkiisu wuxuu noqon karaa saddax-dhinacle ama afar dhinacle iwm.

## 5.4.2 Samaynta Moodheelada Adkeyaasha Fudud

### b Samaynta Moodheelada biriisim iyada oo la isticmaalayo kaartoon

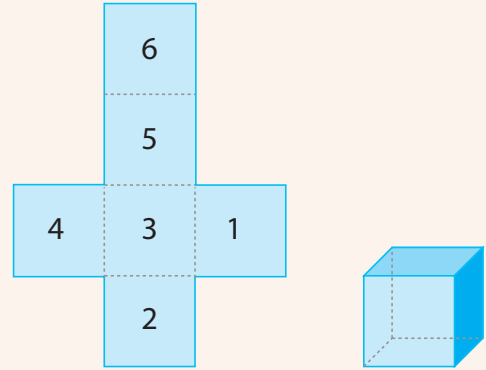
#### Hawlgalka 1

Si aad u samaysiin saddax-jibbaarane dhererka dhinacyadiisu ay yihiin 4 sm hawlahaan hoose siday ukala horeeyaan uga shaqeeya.

- 1 Diyaarsada kaartoon dhererkiisu 12 sm ballaciisuna 16 sm yahay.
- 2 Kaartoonka waxaad ka gooyiin 6 labajibbaarane oo ay dhererada dhinac yadoodu yihiin 4 sm.
- 3 Tirooyinka 1 ilaa 6 labajibbaarana lagu dul qoray iyaga oo iswata jara oo ka saara.
- 4 Shaxan qaabkiisu yahay sida dhinaca midig ee bogga 108 ku sawiran in aad hesheen xaqiijiya.
- 5 Meelaha xariijimaha gogo'an ay ku xariiqan yihiin ka laaba idinka oo xagal quman meesha laabka ka samaynaya.

	4sm			
	6			4sm
		5		4sm
	4	3	1	4sm
		2		4sm

- 6 Cidhifyada xamag isku qabadsiiya.
- 7 Adkaha u qaabkiisu yahay nooca shaxanka dhinaca midig ee ku yaaala bogga 108 in aad heesheen xaqiijiya.
- 8 Shaxanka sooca oo magacaaba.  
Adkaha wejiyadiisa sidan ayaa loo arki karaa
- 3-salka hoose  
6-Salka sare  
4-wejiga bidixda  
1-wejiga midigta  
5-wejiga danbe  
2-wejiga hore



### UFIIRSADA

- Dusha shaxanka la sameeyay ee cidhifyadiisu ay 4 sm yihiin waa saddax jibbaarane. Sido kale saddex jibbaaranayaal cidhifyadoodu kala duwan yahay waa la samayn karaa.

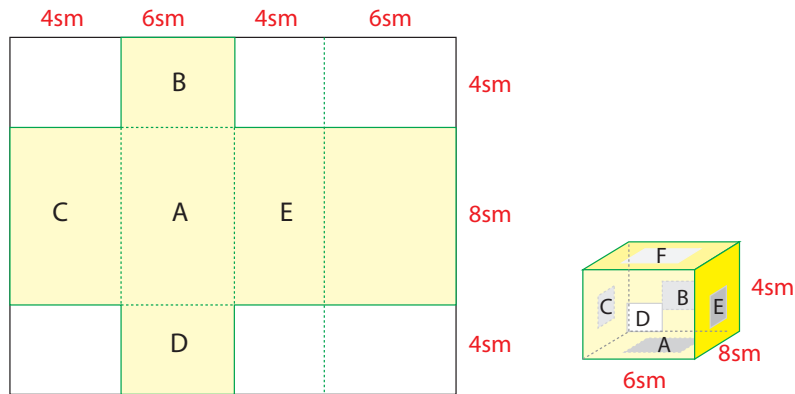
### Laylis 5.4 t

- 1 Kaartoon dhererkiisu 9 sm ballaciisuna 12 sm ka sameeya saddax-jibbaarane cidhifyadiisu yihiin 3 sm.
- 2 Kaartoon dhererkiisu 20 sm ballaciisu na 15 sm ka sameeya saddex-jibbaarane cidhifyadiisu yihiin 5 sm.

### Hawlgalka 5.4 t

Biriisam dhererkiisu 4 sm ballaciisu 6 sm joogiisuna 8 sm yahay si aad kaartoon uga samaysiin idinka oo koox koox ah waxqa badyadan soo socda siday u kala horeeyaan uga shaqeeya.

- 1 Kaartoon dhererkiisu 16 sm ballaciisuna 20 sm yahay goo ya oo diyaar sada.
- 2 Kaar toonka qaabka laydiga ah sida shaxanka hoos ku tusan u qaybqaysha.
- 3 Laydiyada lagu dulqoray xarfaha A, B, C, D, E, F iyago isku yaala (iswata) jara oo saara.
- 4 Waxaad kaartoonka ee isku yaala meelaha xariijimaha gogo'an ay ku yaaliin ka laaba idinka si xagal quman u laabaya.
- 5 Marka aad laabteen cidhifyada kulmay xamag iskugu dhajiya.
- 6 Biriisamka ad samayseen in uu leeyahay qaabka hoos ku tusna xaqiijira.
- 7 Shaxanka aad samayseen magacaaba.
- 8 Shaxanka aad samayseen dhererkiisu, ballaciisu iyo joogiisu inta ay yihiin is warsada oo ka wada tashada.



**UFIIRSADA**

- Shaxankan dhererkiisu waa 6 sm ballacisu waa 8 sm joogiisu na waa 4 sm. Sidoo kale biriisamyo kale oo leh dhererka ballaca iyo jooga la rabo waa la samayn karaa.

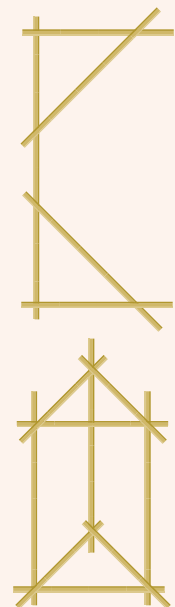
**Laylsi 5.4 J**

- 1 Idinka oo isticmaalaya kaartoon dhererkiisu yahay 8 sm ballaciisuna 10 sm sameeya biriisam dhererkiisu 3 sm ballaciisu 2 sm joogiisuna 4 sm.
- 2 Idinka oo isticmaalaya kaartoon dhererkiisu 32 sm ballaciisu na 40 sm yahay sameeya biriisam dhererkiisu 12 sm ballaciisu 8 sm joogiisu na 15 sm.

**T Samaynta moodhelada biriisim iyada oo la isticmaal-ayo qoryo**

**Shaga kooxeed 5.4 x**

- 1 Alaabta loo baa han yahay samaynta biriisim salkiisu yahay saddexagal.
  - b** Sagaal qoryo dhuudhuuban oo ay dhererkood isku mid yihiin
  - t** Musmaar, dun ama xig
- 2 Sida loo sameeyo
  - b** Saddex qoryo inta ad jiiifiisid midkasta baarkiisa ka kale ee ku gudban inta ad isku xidhiisid sameeya moodheel saddex-dhinacle ah.
  - t** Saddex qoryo kale indinka oo isticmaalaya sameeya moodheel saddex-dhinacle ah oo la mid ah tii hore.
  - j** Saddexda qori ee hadhay udub (dhidib) ahaan idinka oo u isticmaalaya, labadi moodheelo ee saddex dhinac la yaasha iyo udubada isku xidha si ay saddexdhinac la yaashu u noqdaan salka sare iyo salka hoose.
  - x** Hawlgalkan ah samaynta moodheelka imisa qori ayaad isticmaasheen.
  - kh** Moodheelka aad samayseen nooca qaabkiisu magaca xisaabahaan loo yaqaano waa maxay



**Laylis 5.4x**

Idinka oo isticmaalaya alaabo la mid ah kuwa dusha lagu soo sheegay sameeya

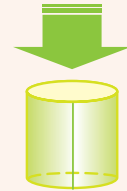
- b** Biriisim ay labadiisa sal yihiin afar dhinacleyaal.
- t** Biriisim ay labadiisa sal yihiin shan-dhinaclayaal.
- j** ‘b’ iyo ‘t’ biriisim yada aad samayseen imisa hal oo qori ayaad ku isticmaasheen?

**J Samaynta moodheelada Dhululubada****Shaqa kooxeed 5.4 kh**

**1** Alaabta loo haahaan yahay samaynta moodheelka dhululubada

- b** Waraaq jaafi ah sida jaldiga buugaagta oo qaabkiisu yahay laydi.
- t** bilastar ama xamag

b	t
x	j



**2** Sida loo sameeyo

- b** Iyada oo aan la isku jajabin labada cidhif ee waraaqda ha la isku soodhaweeyo iyada oo la isku keenayo ‘b’ iyo ‘t’ ‘j’ iyo ‘x’.
- t** ‘b’ iyo ‘t’ sido kale ‘j’ iyo ‘x’ inta la isku keeno xamag ama bilaastar ha la isku dhajiyo.
- j** Dhululubada la sameeyay ee korka iyo hoosta ka furan laba goobo inta loo cabbiro si farsama leh inta loo gooyo ha lagu dhajiyo.
- x** Sharraxaad ak bixiya qaabka moodheelka aad samayseen.

**Laylis 5.4 kh**

Moodheelada dhululubada ee hoosta lagu tilmasmay ka sameeya kilaasar ama shay kale oo la mid ah oo dhererkiisu 10 sm ballacisu ma 20 sm yahay.

- b** Idinka oo dhinaca dhererkiisu 10 sm yahay goobada ka sameeya.
- t** Idinka dhinaca 20 sm ka samayna ya goobada
- j** ‘b’ iyo ‘t’ dhululubooyinka la sameeyay maxay ku kala duwan yihiin.

## Cutubka

# 6aad



## WAQTIGA (AMMINTA)

### 6.1 SAACAD, DAQIIQAD IYO ILBIRIQSI

Casharadiinii xisaabta ee fasalka saddexaad waxaad ku soo barateen halbeeyo kala duwan oo waqtiga lagu cabbiro si aad u xasuusatiin bal idinka oo koox koox ah ka dooda oo ka jawaaba wey-diimahan hoose.

#### Hawlgalka 6.1 b

1 Qora lix halbeeg oo lagu cabbiro waqtiga (amminta)

2 Halbeegyada waqtiga ee lamman ee soo socda midka weyn sheega.

- bil ama sanad
- Bil ama maalin
- Maalin ama toddoobaad
- Saacad ama daqiiqad

3 Fiiriya Saacadda gacanta ama saacadda miiska ama saacadda giddaarka.



Inta u badan saacaddahan waxay leeyihiin saddex gacmood ama kabaalo oo tilmaamayaal (tiri-yeyaal) ah. Saddexda gacmood (kabaalo) dhererkoodu isma wada le'eka. Midi wuu gaaban yahay midka kale ka gaaban ayuu wax yar ka dheer yahay ka saddexaadi na waa mid dhuuban oo labada kale inta uu ka dheer yahay ayuu dhaq dhaqaaqiisu naka dagdagbadan yahay.

- Daqiiqad tirisadu waa tee?
- Saacad tirisaduse?
- Ta dheer ee dhaqdhaqaaqeedu dagdago waa tee? Maxaad u malaynaysiin in ay tiriso?

*Waxa dhici karta in saacaddaha qaarkood iyaga oo aanan lahayn ilbiriqsi tiriso ay lahaan karaan gacmo ama kabaalo daqiiqada iyo saacadda oo qudhaata uun tiriya.*



## Hawlgalka 6.1 t

- 1 b** U fiirsada daqiiqad tirisadu meesha ay jooqto gacanta dhaqdhaqaaqeedu dagdaga (ilbiriqsi tiriso) tirada 12 inta ay ka bilawdo 5 wareeg inta ay wareeganayso suga. Waqtigaas daqiiqad tirisadu meesha ay ka kacday ilaa meesha ay gaadhay ama inta daqiiqadood ay socotay sheega.
- t** Ilbiriqsi tirisadu hal wareeg oo idil in ay wareegato imisa ilbiriqsi ayay ku qaadan?
- j** Ilbiriqsi tirisadu hal wareeg oo idil inay wareegato imisa daqiiqadood ayay ku qaadan?
- x** Daqiiqad tirisadu hal wareeg oo idil inay wareegato imisa saacadood ayay ku qaadan.
- kh** Hal saac waa imisa daqiiqadood?
- d** Saacad tirisadu hal wareeg oo idil inay wareegato imisa saacadood ayay ku qaadan?
- r** Saacad tirisadu hal wareeg oo idil inay wareegato imisa maalmood ayay ku qaadan?
- s** Cadceed soo baxa ilaa gabal dhaca waqtiga ku sugan iyo hal habeen oo idil guud ahaan waxaa loo yaqaanaa hal maalin. Sidaas darteed hal maalin waa imisa saacadood?
- sh** 1 daqiiqo = \_\_\_\_\_ ilbiriqsiyo                      1 saac = \_\_\_\_\_ daqiiqadood

### UFIIRSADA

- ⇒ *Ilbiriqsi daqiiqad iyo saacad waa halbeegyo waqtiga lagu cabbiro*
- *1 daqiiqo = 60 ilbiriqsi*
  - *1 saac = 60 daqiiqo = 3600 ilbiriqsi*
  - *1 maalin = 24 saac = 1440 daqiiqadood.*
- ⇒ *Ilbiriqsi tirisadu hal wareeg oo idil inay wareegato waxay ku qaadataa 60 ilbiriqsi ama 1 daqiiqo. Sidaas darteed 5 wareeg oo idil inay wareegato waxay ka qaadan 5 daqiiqo ama 300 ilbiriqsi.*

## 6.2 XISAABINTA HALBEEGYADA WAQTIGA

### 6.2.1 Isku bedelidda Halbeegga waqtiga ee waa weyn oo loo bedalayo kuwa yar-yar

#### Tusaale 1

Qananiisa orod fogaantiisu yahay 5000- mitir waxay ka qaadatay 13 daqiiqadood oo qudhaata waqtiga ay ka qaadatay orodka ilbiriqsi marka lagu sheego (cadeeyo) waa imisa?

#### Jawaab

$$1 \text{ daqiiqo} = 60 \text{ ilbiriqsi}$$

$$13 \text{ daqiiqo} = 13 \times 60 \text{ ilbiriqsi} = 780 \text{ ilbiriqsi}$$



## Tusaale 2

Hayle gabre silaase orodka maraatonka oo uu orday wuxuu ku dhameeyay 2 saac iyo 3 daqiiqo. Sidaas darteed na wuxuu hantiyay oo uu iskii u yeeshay darajada ugu saraysa ee aduunka ee orodka maraatoonka. Waqtiga uu orodka ku dhamaystiray marka daqiiqado lagu sheego (codeeyo) waa imisa?

### Jawaab

$$2 \text{ saacadood iyo } 3 \text{ daqiiqo} = 2 \times 60 \text{ daqiiqo} + 3 \text{ daqiiqo} \\ = 120 \text{ daqiiqo} + 3 \text{ daqiiqo} = 123 \text{ daqiiqo}$$

Sidaas darteed hayle orodka wuxuu ku dhameeyay 123 daqiiqo



## Tusaale 3

Dhakhtarka kaara mardha maalintii wuxuu shaqeeyaa oo uu adeegsi caafimaad siiyaa mudo 24 saacadood ah. Hal sano ama 365 maalmood imisa saacadod ayuu shaqeeyaa oo uu adeegsi caafimaad siiyaa?

### Jawaab

$$1 \text{ maalin} = 24 \text{ saacadood}$$

$$365 \text{ maalmood} = 365 \times 24 \text{ saacadood} = 8760 \text{ saacadood}$$

oo shaqo adeeg caafimaad ayuu bixiyaa.

- Daqiiqad marka ilbiriqsi loo bedalayo tirada daqiiqada la siiyay ayaa 60 lagu dhuftaa.
- Saacad marka daqiiqo loo bedalayo tirada saacada la siiyay ayaa 60 lagu dhuftaa.
- Maaliin marka saacad loo bedalayo tirada maalinta la siiyay ayaa 24 lagu dhuftaa.

## Shaqo kooweed

- b** 2 maalmood waa imisa daqiiqadood?      **t** 12 saacadood waa imisa ilbiriqsi?  
**j** maalin rubuceed waa imisa ilbiriqsi?

### Laylis 6.2.b

- 1** Ilbiriqsi u badala  
**b** 7 daqiiqo      **t** 17 daqiiqo      **j** 70 daqiiqo
- 2** Daqiiqo u badala  
**b** 3 saac      **t** 5 saac iyo rubuc      **j** 12 saac iyo 5 daqiiqo
- 3** Saacad u badala  
**b** 10 maalmood      **t** 15 maalmood 6 saac      **j** 900 maalmood iyo 5 saac
- 4** **b** 24 saac = \_\_\_\_\_ ilbiriqsi      **t** 7 maalmood = \_\_\_\_\_ ilbiriqsi  
**j** 2 maalmood = \_\_\_\_\_ daqiiqo

## 6.2.2 Isku bedeliida Halbeega waqtiga ee ugu yar oo loo bedelayo ku weyn

### Hawlgalka 6.2.1

Idinka oo koox koox uga wada xaajoonaya ka jawaaba

- b** 180 ilbirqsi waa imisa daqiiqadood?      **f** 180 daqiiqadood waa imisa saac.

### Tusaale 4

Daqiiqad u bedela

- b** 240 ilbirqsi      **f** 600 ilbirqsi      **j** 8400 ilbirqsi

#### Jawaab

- b** 60 ilbirqsi = 1 daqiiqo sidaas awgeed

$$240 \text{ ilbirqsi} = (60 + 60 + 60 + 60) \text{ ilbirqsi} = 4 \times 60 \text{ ilbirqsi} \\ = 4 \times 1 \text{ daqiiqo} = 4 \text{ daqiiqo}$$

Sidaas darteed 240 ilbirqsi = 4 daqiiqo

- f** 600 ilbirqsi  $10 \times 60$  ilbirqsi =  $10 \times 1$  daqiiqo = 10 daqiiqo

- j** 8400 ilbirqsi =  $80 \times 60$  ilbirqsi =  $80 \times 1$  daqiiqo = 80 daqiiqo

### Tusaale 5

Saacad u bedela.

- b** 120 daqiiqo      **f** 570 daqiiqo      **j** 2700 daqiiqo

#### Jawaab

- b** 60 daqiiqo = 1 saac sidaas awgeed

$$120 \text{ daqiiqo} = 60 + 60 \text{ daqiiqo} = 2 \times 60 \text{ daqiiqo} = 2 \times 1 \text{ saac} = 2 \text{ saac}$$

- f** 570 daqiiqo =  $(540 + 30)$  daqiiqo = 540 daqiiqo + 30 daqiiqo

$$= 9 \times 60 \text{ daqiiqo} + 30 \text{ daqiiqo} = 9 \times 1 \text{ saac} + 30 \text{ daqiiqo}$$

$$= 9 \text{ saac iyo } 30 \text{ daqiiqo}$$

$$= 9:30 \text{ saac}$$

- j** 2700 daqiiqo =  $45 \times 60$  daqiiqo =  $45 \times 1$  saac = 45 saac

### Tusaale 6

Maalin u bedela

- b** 72 saac      **f** 360 saac      **j** 2412 saac



**Jawaab**

- b** 24 saac = 1 maalin sidaas awogeed  
 72 saac = (24 + 24 + 24) saac = 3 × 24 saac = 3 × 1 maalin = 3 maalmood
- f** 360 saac = 15 × 24 saac = 15 × 1 maalin = 15 maalmood
- j** 2412 saac = (2400 + 12) saac = 2400 saac + 12 saac  
 = 100 × 24 saac + 12 saac  
 = 100 × 1 maalin + 12 saac  
 = 100 maalmood + maalin badhkeed  
 = 100 maalmood iyo badh

**Shaqa kooxeed**

- b** 7200 daqiiqo = \_\_\_\_\_ maalmood      **f** 7200 ilbiriqsi = \_\_\_\_\_ saac
- j** 129,600 ilbiriqsi = \_\_\_\_\_ maalmood

**Laylis 6.2 t**

- 1** Daqiiqad u badala  
**b** 300 ilbiriqsi      **f** 7200 ilbiriqsi      **j** 66000 ilbiriqsi
- 2** Saacad u badala  
**b** 240 daqiiqo      **f** 615 daqiiqo      **j** 1260 daqiiqo
- 3** Meelaha bannaan buuxiya  
**b** 30 ilbiriqsi = \_\_\_\_\_ daqiiqo      **f** 90 daqiiqo = \_\_\_\_\_  
**j** 3000 daqiiqo = \_\_\_\_\_ saac      **x** 4320 daqiiqo = \_\_\_\_\_ maalmood

**6.2.3 Isugeynta iyo kalagoynta Halbeegyada waqtiga****Isugeyn****Hawlgalka 6.2 J**

Ardayda fasalka 4<sup>aad</sup> waxay ku jiraan imtaxaan lagu imtaxaanayo maadooyinka ingiriisiga iyo xisaabta. Imtaxaanka ingiriisiga waqtiga la siiyay waa 1 saac iyo 25 daqiiqo. Xisaabtana waqtiga la siiyay waa 90 daqiiqo.

- b** Labada imataxaan saacadaha la siiyay wadartoodu waa imisa?
- f** Waqti dheer imtaxaanka la siiyay waa kee? Waqti intee in le'eg ah ayuu dheeryahay?

## Tusaale 7

Fardawsa haddii ay 4:30 saac ee habeeninmo inta ay seexato ay muddo 8 saac hurudo saacadu markay imisa tahay ayay toosi?

### Jawaab

Waxay seexatay 4:30

Inta saac ay seexatay 8:00 (8 saac iyo eber daqiiqo)

Wadar 12:30

## Tusaale 8

Hal dugsi waxbarashada waxaa la bilaabaa aroortii saacadu marka ay tahay 2 da saac. Xiisad kasta waxa loo qoondeeyay 45 daqiiadood.

- b** Xiisada u horaysa saacadu markay imisa tahay ayay dhamaataa?
- t** Labada xiisadood ee u horeeya ee isku xigta waqtiga ay qaataan wadartoodu waa imisa?
- j** Waqtiga nasashada (tanafaska) haddii u yahay 3 xiisadood dabadeed imisada saaca ayey biririfta (nasashada) u baxayaan?

### Jawaab

- b** Waxabarashada waxaa labilaaba 2:00 (2 saac iyo eber daqiiqo) xisaada u horaysaa waxay qaadataa 0:45 (eber saac iyo 45 daqiiqo) wadar 2: 45

Sidaas darteed xiisada u horaysaa waxay dhamaataa 2:45 saac ama 3 saac oo rubuc dhi man

- t** Xiisada u horaysaa waxay qaadataa 45 daqiiqo labada xiisadood ee u horeeyaa waxay qaadanayaan

$$= (45 + 45) \text{ daqiiqo} = 90 \text{ daqiiqo}$$

$$90 \text{ daqiiqo} = (60 + 30) \text{ daqiiqo} = 1 \text{ sac iyo } 30 \text{ daqiiqo} = 1: 30 \text{ saac}$$

- j** Saadax xisadood oo isku xigta wadartoodu =  $(45 + 45 + 45)$  daqiiqo  
= 135 daqiiqo

$$135 \text{ daqiiqo} = (60 + 60 + 15) \text{ daqiiqo}$$

$$= 1 \text{ saac} + 1 \text{ saac} + 15 \text{ daqiiqo}$$

$$= 2 \text{ saac iyo } 15 \text{ daqiiqo} = 2: 15$$

Aroorti wax barashada waxaa la bilaabaa 2: 00 saac

Saddax xiisadood oo isku xigta waxay qaataan 2: 15

Wadar 4: 15

Sidaas darteed waqtiga nasashadu waxay ku beegantaa saacadu markay tahay 4: 15 ama 4 ta saac iyo rubuc.

## Tusaale 9

Isugeeya

**b**  $5:45 \text{ saac} + 1:15 \text{ saac}$

**Jawaab**

$$\begin{array}{r} 5 \text{ saac iyo } 45 \text{ daqiiqo} \\ + \underline{1 \text{ saac iyo } 15 \text{ daqiiqo}} \\ 6 \text{ saac iyo } 60 \text{ daqiiqo} \end{array} \qquad \begin{array}{r} 5:45 \\ + \underline{1:15} \\ 6:60 = 7:0 \end{array}$$

$6 \text{ saac} + 1 \text{ saac} = 7 \text{ saac}$

**f**  $8:35 \text{ saac} + 24:40 \text{ saac}$

$$\begin{array}{r} 8 \text{ saac iyo } 35 \text{ daqiiqo} \\ + \underline{2 \text{ saac iyo } 40 \text{ daqiiqo}} \\ 10 \text{ saac iyo } 75 \text{ daqiiqo} \end{array} \qquad \begin{array}{r} 8:35 \\ + \underline{2:40} \\ 10:75 = 11:15 \end{array}$$

$= 10 \text{ saac} + 75 \text{ daqiiqo}$

$= 10 \text{ saac} + 60 \text{ daqiiqo} + 15 \text{ daqiiqo}$

$= 10 \text{ saac} + 1 \text{ saac} + 15 \text{ daqiiqo} = 11:15 \text{ saac}$

### Laylis 6.2 J

- 1** Isugeeya halbeegyada waqtiga
  - b**  $2 \text{ saac iyo } 15 \text{ daqiiqo} + 1 \text{ saac iyo } 10 \text{ daqiiqo}$
  - f**  $3 \text{ saac iyo } 40 \text{ daqiiqo} + 5 \text{ saac iyo } 25 \text{ daqiiqo}$
  - j**  $3 \text{ saac iyo } 55 \text{ daqiiqo} + 5 \text{ saac iyo rubuc}$
- 2** Idaacad raadiyaha aha ah ayaa barnaamijyadeeda saddax af ku sii daysa. Idaacadu barnaamijyadeeda ay si isugu taxan ayay sidan u siidaysaa.  
Barnaamijyadeeda waxay si isku taxan ku si daysaa soomaaliga mudo  $1:25$  oromaha mudo  $1:30$  saac iyo tigre oo qaata mudo  $1:15$  saac. Idaacadu saddaxda af mudo imisa saacadood ah ayay barnaaj yadeeda ku siidayn.
- 3** Nin beerqodal ah ayaa aroor  $1:45$  saac into kabilaaby mudo  $3:30$  saacadood xidhiidh beerta marku qoday dabadeed ayuu dibidii inay daaqaan furay saacadu markay imisa ahayd ayuu dibida u harqood ka kafuray?
- 4** Laba kooxood oo kubada cagta ciyaara ayaa ciyaar toodu bilaabay saacadu markay ahayod  $8:30$  maalin nimo.  $90$  daqiiqadood markay dhamaysteen waqtii caadiga makala badin. Sidaas darteed  $5$  daqiiqo markay nasteen dabadeed ayaa  $30$  daqiiqadood oo loogu daray markay ciyaareen dabadeed ayay ayaartii dhamaatay. Ciyaartu imisadil saacadood ayay dhamaatay?



**Laylis 6.2 x**

- 1 Waxabarashada 2:30 saac la bilaabay hadi ay dhamaato 6:30 saac imisa saac ayay wax barashadu qaadatay?
- 2 Idaacad ayaa barnaamij faafinteed bilawday saacadu markay ahayd 8:00 saac ee maalinimo barnaamijkeedu hadii u dhamaaday 5 saac ee habeenimo imisa saacadood ayay idaacadu hawada ku jirtay.
- 3 Ciyaaryaan ordaa ah ayaa orodka 10,00 miitr ku dhameeyay 27 daqiiqo iyo 32 ilbirqsi. Ciyaartaan qudhiisa ayaa orodkan 10,000 mitir tartan u meelkale ka galay ku dhameeyay 26 daqiiqo iyo 42 ilbirqsi.
  - b Orodagani xawligu kui ordayay miyuu kordhiyay mise wuu naaqusay?
  - t Labada orod u ka qaybgalay farqigoodu waa inte in le'eg?
- 4 Dahab waxay ku jirta oo ay qaadnaysaa imtaxaan maadad xisaabta waqtiga guud ee imta xaanka la siiyay waa 1:45 saac. Hasayeesha e dahab waxay imtaxaanka ku dhamaysay 80 daqiiqo waqtiga loo qoondeeyey intee in le'eg ayay ka hor dhamaysay?
- 5 Kalagooya
 

<b>b</b> 6 saac iyo 2 daqiiq – 4 saac	<b>t</b> 8 saac iyo 15 daqiiq – 7 saac iyo 30 daqiiqo
<b>j</b> 10:35 saac – 4:25 saac	<b>x</b> 3:30 saax – 2:40 saac
<b>kh</b> 5.25 saac – 4:30 saac	

**6.3 ISBARBAR DHIGIDDA HALBEEGYADA WAQTIGA**

Shaxdan hoose marka ad u fiirsatiin dabadeed suaalaha ka jawaaba.

	Waqtiga imtaxaanku la siiyay
imtaxaanka xisaabta	1:45 saac
Intaxaamka Ingriisiga	100 daqiiqo

- b** labada imtaxaan ka waqtiga dheer la siiyay waa kee?
- t** waqtiga la siiyay ka yar kaga bilaaba oo horsanaan oo qora

**Tusaale 1**

Xasan iyo Maryan dugsigooda ilaa guryahooda ayay u soocdaan. Xasana wuxuu guriga gaadhay 10 saac oo rubuc dhiman. Maryan na waxay gurigeeda gaadhay 9:45 saac. Labada midkoodee baa guriga u hor gaadhay?

**Jawaab**

Xasan wuxuu gurigooda gaadhay 10 saac oo rubuc dhiman  
 $= 10 \text{ saac} - 15 \text{ daqiiq} = 9:45$

Sidoo kale Maryanna waxay gurigooda gaadhay 9:45 saac sidaas darteed labadooduba waqti isku mid ah ayay guryahoodu gaadheen.

10 saac oo rubuc dhiman = 9:45 saac

**Shaqo-kooxeed**

Shaxdan hoose u fiirsada kadibna waydiimahan ka jawaaba.

<b>Maalin</b>	Waqtiga iyo muddada uu roobku da'ay
<b>Isniin</b>	Aroor 12:00 – aroor 1:15
<b>Talaata</b>	8:15 maalinimo – 9:20 maalin nimo
<b>Arbaca</b>	1:30 fiidkii – 2:50 fiidkii

- b** Maalintee ayuu mudo dheer da'ay?
- t** Maalinteese ayuu mudo gaaban da'ay?
- j** Roobku mudooyinku da'ay mudada yar idinka oo ka bilaabaya horsanaan u qora.

**Laylis 6.3**

**1** Ardo, Safiya iyo Dayib ayaa loo dhiibay shaqo isku mid ah. Ardo shaqada waxay ku damaystirtay 2 saac iyo 5 daqiiqo. Safiyana 128 daqiiqo oo qudhaata Dayib na 125 daqiiqo iyo 45 ilbiriqsi kooda hore u dhameeya abaal gud ayaa lasiin. Siddas darteed,

- b** koodee baa abal gudka mudan in u qaato?
- t** midka ay shaqadiisu dib udhacaday waa kee.
- j** mudooyinka ay shaqada ku dhameeyeen mudada yar kagabilaaba oo horsanaan u qora.

**2** Shaxdan soo socota waxaa lagu sharraxay waqtiga iyo muddada ay Ismaaciil, Nuur iyo Sahra ay casharadooda ku xafidaan.

	<b>Waqtiga iyo muddada xafidaada</b>
Ismaaciil	Habeenkii 1:30 – 4:00
Nuur	Galabtii 11:00 – 1:00
Sahra	Subaxa daakiraada 10:00 – 1:00

- b** Saddexda kee baa mudo dheer xafida?
- t** Saddexda kee baa mudo gaaban xafida?
- j** Ardaydu mudooyinka ay xafidaan mudada weyn kaga bilaaba oo ilaa mudada ugu yar horsanaan u qora.

**3** Kee baa badan

- b** 6000 ilbiriqsi ama 600 daqiiqo?      **t** 6000 ilbirqsi ama 1 saac iyo 30 daqiiqo?
- j** 800 daqiiqo ama 13 saac?

**4** Ka yar ilaa ka weyn horsanaan u qora

- b** 90 daqiiqo, 1 saac iyo 35 daqiiqo; 5000 ilbirqsi
- t** 3200 ilbiriqsi, 60 daqiiqo: 1 saac iyo 5 daqiiqo
- j** 420 daqiiqo, 25200 ilbiriqsi, 7 saac

## Cutubka

# 7aad



## URURINTA IYO HABAYNTA XOGAHA

### 7.1 DHISIDDA GARAAF LAYDIYEEDKA

#### 7.1.1 Ururinta xogta


#### Hawlgal 7.1 b

Sawiradan hoos ku tusan eega oo fiiro gaar ah u yeesha



Sawirada noocyahooda iyo tiradoodaba inta ad tirisiin sida hoostan loogu cadeeyay idinka oo raacaya oo isla markaana isticmaalaya xariijimo iyo astiro shaxda buuxiya (mida koowaad tusaala ahaan waa la idin kashaqeyay).

- 1 Haday tahay /      6 Haday yihiin ## ///  
 2 Haday yihiin //    7 Haday yihiin ## ///  
 3 Haday yihiin ///    8 Haday yihiin ## ///  
 4 Haday yihiin ///    9 Haday yihiin ## ///  
 5 Haday yihiin ##    10 Haday yihiin ## ##

Xogta la soo ururiyay oo sawiro lagu sharraxay	Tiradooda oo xariijimo lagu miijiyay	Tiradooda oo astiro lagu qoray
	##	5
		
		

## Hawlgal 7.1 t



Idinkoo egaya xolaha daaqaya shaxda hoos ku xusan buugina ku guuriya kadib buuxiya meelaha banaan

Xogta si aan u uruurino maxaa loo bahan yahay inaan samayno



Haa ! aad ayay u dhib yar tahay

- 1 Si daganaansho leh waa inaan u firir sano
  - noocyada iyo tirada sawirada
- 2 Waxa loo bahan yahay inaan samayno
  - Xasuus qor inaan haysano
  - Xogta aan ururinay anaga oo adeegsanayna shax waa in aan sharraxnaa



Tirada oo xariijiimo ku tusan			
Tirada oo astiro lagu qoray			

### Laylis 7.1.1

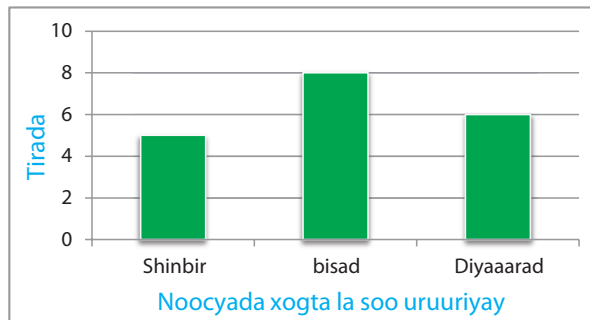
- 1 Fasalkiina ardayda aad wax ku wada baratiin da'dooda inta ad weydiisiin kuwa 10 jirka ah iyo kuwa da'doodu ay ka yar tahay 10 sano, sidoo kale kuwa ay da'doodu 10 sano ku weyn tahay inta ad diiwaanisiin shax ku muujiya.
- 2 Dugsigiina dhaxdiisa inta ad kormeertiin xog ku saabsan qololka dugsiga ka dhisan inta fasalo wax lagu barto ah iyo inta xafiisyo ah inta ad soo ururusiin shax ku muujiya.
- 3 Idinka oo koox koox ah lacagta qadaadiicda ee shanta saanti ah 20 jeer inta ad kor u tuurtiin inta jeer ee ay u dhacday dhinaca wajigeeda u dadku ku sawiran yahay iyo inta jeer ee ay u dhacday wejigeeda u libaaxu ku sawiran yahay inta ad diwaangalisiin shax ku muujiya kadibna shaxdiina kooxaha kale shaxdooda barbardhiga.
- 4 20 arday oo ka mid ah ardaya fasalkiina waydiiya nooco khudaarta ay jecel yihiin. Kadibna xogta aad ururiseen shax inta ad ku sharraxdiin koxdiina ardayda ka tirsan u cadeeya.



## 7.1.2 Dhisidda garaaf laydiyeedka fudud ee xogta la soo ururiyo

Haatan kahor Hawlgalka 7.1.B dhaxdeeda shaqadii aad ka soo shaqayseen ee ku saabsanayd xogta shimbiraha, bisadaha iyo diyaaradaha sidan soo socota ayaa shax iyo garaaf laydiyeed loogu sharrixi karaa.

Xogta la soo uruuriyay	Tirade oo lagu qoray xariijimo	Tirada oo astiro lagu qoray
	###	5
	###	8
	### /	6



### Shaqo kooxeed

Su'aalahan soo socda inta aad ka wada tashatiin ka jawaaba idinka oo jawaabihiina ku salaynaya garaaf ladiyeedka korka lagu muujiyay.

- 1 Garaafka dhaxdiisa xariiqa gudban hoostiisa magaacda lagu qoray maxay inoo tilmaamayaan?
- 2 Maxay inoo tilmaamayaan tirooyinka 0 ilaa 10 ay ku qoran xariiqa jooga ah (xariiqa qotomsan)?
- 3 Garaafka dhaxdiisa imisa laydiyo dhidban ayaa inoo muuqda? Laydi kasta dhererkiisu muxuu tilmaamayaa?
- 4 laydiga ugu dheer tirada lasiman waa imisa? muxuuse inoo til maamayaa
- 5 laydiga ugu yar tirada la barbar siman waa imisa? muxuuse tilmaamayaa?
- 6 xariiqa dhidban tirada 5 ee ku qoran muxuu tilmaamayaa?
- 7 Dhererka laydiyadu miyay kala duwan yihiin? Waayo? Balacooduse?
- 8 Foogaanta u kala dhaxeeya laydiyada miyay kala duduwan yihiin?
- 9 xariiqa dhidban tirooyinka lagu qoray 0 ilaa 10 fogaanta laba kasta u dhaxaysa miyay isle'egtahay?

## U FIIRSADA

- Laydi walba waxa loo yaqana baar
- Garaafkiisana waa baar-garaaf (garaaf laydiyeed)

### Qalabka loo sawirana

- Xariiq jog ah iyo xariiq jiif ah oo midba ka kale qotome u yahay ayaa la sawiri.
- Xariiq jog ah waxaa loo qaybin fogaano yar yar oo isle'eg
- Tirooyinka ku yaala xariiq joga ah waxay tilmaamaan tirada shayga xogta ka tirsan
- Xariiq jiifka ah noocyada xogta ayay tilmaamaysa
- Dhererka laydiga sawiraadiisa waxaa lagu saleeya tirada xogta
- Balaca laydiyadu way iswada le'eg yihiin.
- Fogaanta u dhaxaysa laydiyada way isle'eg tahay.

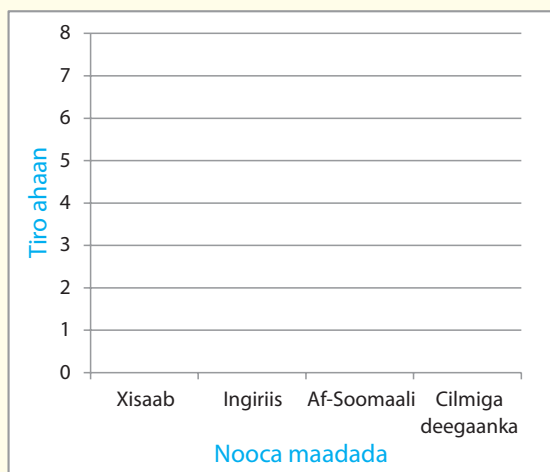
## Tusaale

20 arday oo laga warsaday madooyinka ay aadka u jecel yihiin jawaabaha ay ka bixiyeen inta la uruuriyay oo la habeeyay ayaa shaxdan hoose lagu sharraxay.

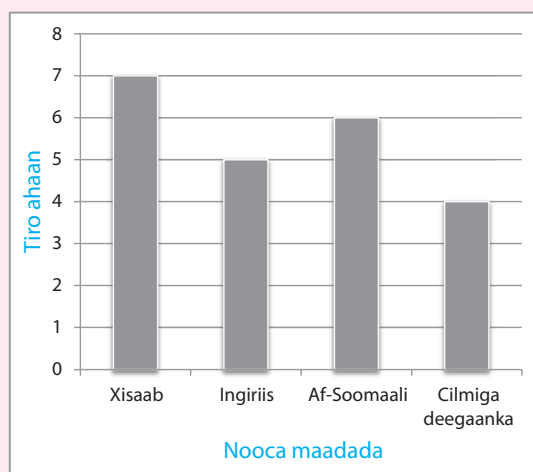
Nooca madada	Tirade oo xariijimo lagu qoray	Tirada oo astiro lagu qoray
Xisaab	### //	7
Ingiriis	###	5
Af-somaali	//	6
Cilmiga deegaanka	////	4

Xogta shaxda sare lagu sharraxay si aan ugu muujino garaaf-laydiyeed waxaan isticmaalaynaa talaabooyinkan soo socda ee hawlfulinta ah.

Talaabada 1<sup>aad</sup> samaynta (sawirida) xariiq jog ah iyo xariiq jiif ah oo isku qotoma.



Talaabada 2<sup>aad</sup> Dhisidda (sawirida) garaaf laydiyeedka.



**Laylis 7.1.2**

1 Shaxdan hoose waa shax lagu sharraxay xog ku saabsan booqasho ay sameeyeen ardayda dugsiga sare ee shekh Cabdislaan ee sanadkii 2001 T.I.

Gobaha ay booqdeen	Tirade ardayda booqatay
Baarkiga awaash	80
Wabiga shabeele marku goday marayo	50
Gidaarka taariinkhiga ee magaalada Harar	70

Xogta ku saabsan booqashada ardayda ee shaxda lagu diwaan galiyey idinka oo ku salaynaya garaaf laydiyeed ku muujiya.

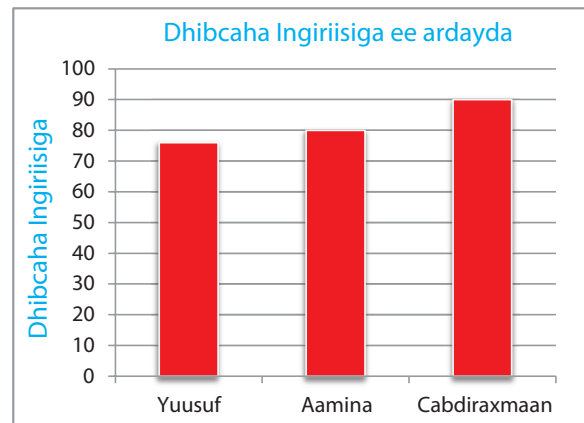
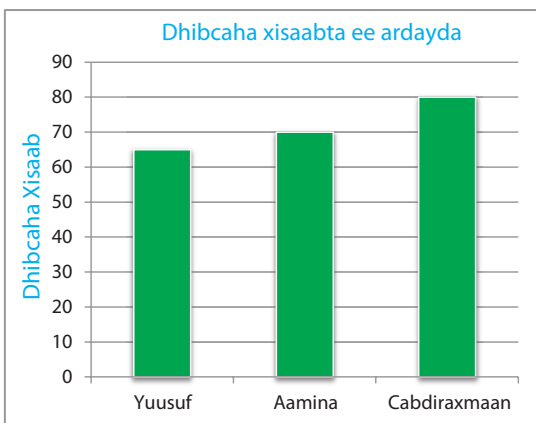
2 Xog ku saabsan biladihii lagu helay tartanadii dhaxmarya jaamacadaha sanadkii 2001 T.I ayaa shaxdan hoose lagu muu jiyay.

Jaomacadaha	Tirade biladaha ee la helay
Maqale	35
Adhama	25
bahardhaar	30

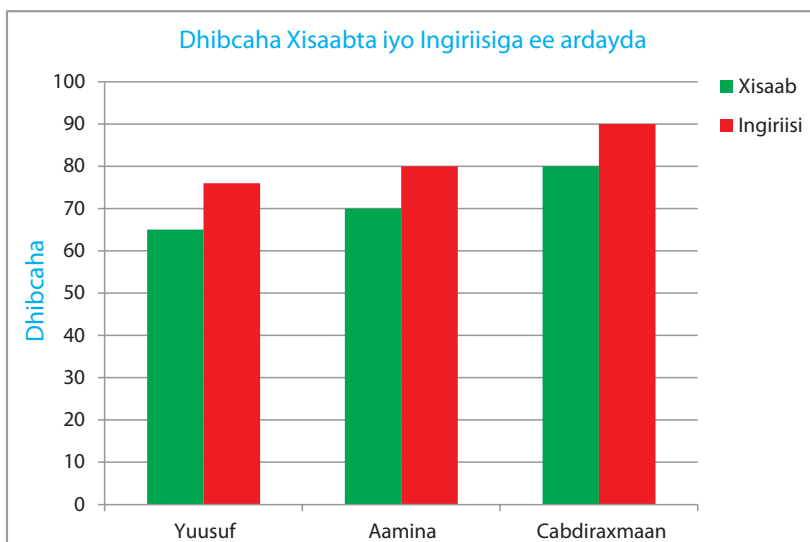
Xogta shaxda sare lagu muujiyay ee ku saabsan biladaha ay jaamacaduhu tartanka ku heeleen garaaf laydiyeed ku muujiya.

Shaxdan soo socota waxaa lagu sharraxay oo ay ka warbixinaysaa yuusuf, Aamina iyo cabdiraxmaan dibcaha natiijooyinka ay ka keeneen maadooyinka xisaabta iyo ingiriisiga.

Magaca ardayga	Dhibcaha xisaabta	Dhibcaha ingiriisiga
Yuusuf	65	76
Aamina	70	80
Cabdiraxmaan	80	90



Natiijooyinka ardayda inkasta oo la doorbido in maaddo walba kaligeed lagu muujiyo garaaf-laydiyeed hadana natiijooyinka labada maadooyin hal garaaf laydii waa lagu muujin karaa.



### Shaqo kooxeed

Suu aalahan soo socda ka jawaaba.

- 1 Garaafka kor ku xusan qaybta midabka cas lagu qalimeeya maxay tilmaamaysaa? Qaybta midabka buluuga lagu qalimeeyayse?
- 2 Garaafka korka sida aad ku aragtiin wuxuu leeyahay laba laba laydiyo oo midi cas yahay midna cagaar yahay oo la isku dhaweeyay. Hadaba isku dhaweyntu maxay tilmaamaysaa?

### Laylis 7.j.3

- 1 Xogtan hoos ee la idin siiyay hal garaaf laydiyeed ku muujiya.  
Xog ku saabsan iibka tigidhada lagu galo meelo kale duwan oo la booqdo.

Mee laha la booqdo	Qiimaha tigidhka oo Birr ah	
	Caruurta	Dadka waweyn
Goobta yaxaaska lagu dhaqo ee arba minjii	3	5
Baarkiga Awaash	5	7

- 2 Xogtan soo socota ee la idin siiyay hal garaaf-laydi ku muujiya.  
Sanado kale duwan qiimaha khudarta ee jiray kilo ahaan.

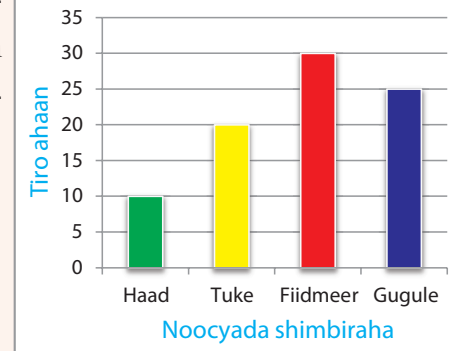
Nooca khudarta	Qiimaha khudarta kilo ahaan	
	2000 t.i	2001 t.i
Liin macan	8 Birr	10 Birr
Muus	6 Birr	8 Birr
Canbe	9 Birr	11 Birr

## 7.2 MACNAYNTA IYO SHARRAXIDDA XOGTA LAGU MUUJIYAY GARAFLAYDIYEED

### Hawlgalka B

Xaafad ka mid ah deegaankeena shimbiraha laga heelo noocya-hooda iyo tiradooda xog ku saabsan ayaa garaaf-laydiyeedkan soo socda lagu muujiyay. Idinka oo garaaf-laydiyeedkan u cuskanaya su'aalahan soo socda ka jawaaba.

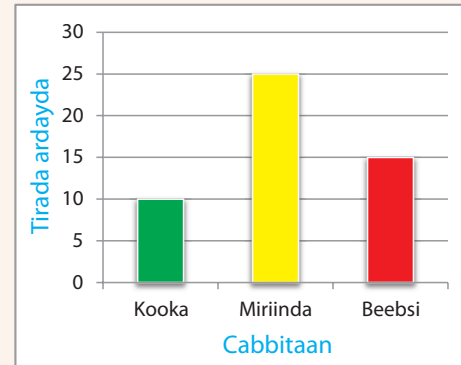
- 1 Imisa gugule ayaa jira?
- 2 Xafada imisa haad ayaa jira?
- 3 Gabi ahaan waa imisa tirada guud ee shimbiryahu?
- 4 Nooca Shimbiraha ugu badan waa ku wee?
- 5 Shimbiraha nooca ugu tirada yari waa ku wee?
- 6 Faraqa u dheexeeya shimbiraha tiradooda ugu weyn iyo kuwa ugu yar waa imisa ?



### Hawlgalka

Ardayda fasalka 4<sup>aad</sup> ee B barata ayaa la waydiiyay nooca sharaabka ee ay aad u jecel yihiin. Kadibna jawaabaha ay bixiyeen ayaa garaafil aydiyeedkan hoose lagu muujiyay. Idinka oo ku salaynayaa garaaf-ladiyeedka su'aalaha ka jawaaba

- 1 Imisa arday ayaa dooratay kookaha?
- 2 Imisa arday ayaa doortay mariindaha?
- 3 Imisa arday ayaa beebisiga dooratay?
- 4 Garaafka dhaxdiisa tirada 25 maxay tilmaamayaasaa?
- 5 Sharaabka ay dooratay arday tiradoodu yar tahay waa nooce?
- 6 Dhammaan tirada ardayda ee fasalka arday walba waxaa u doortay nooc saddexda sharaab ka mid ah. Sidaas darteed tirada ardayda fasalka ka barataa waa imisa?



## 7.3 CELCELISKA ILAA 4 TIRO

### Tusaale

Shaxdan soo socota waxaa lagu muujiyay ardayda kala ah Xaliimo, Ugaaso iyo Cusmaan natiijada ay ka keeneen maadadda xisaabta iyo maadadda ingriisiga. Ardayga natiijooyinkiisa labada maado celceliskoodu u ka sareeyo 75 waxaa la siin abaal marin. Sidaas darteed saddex arday midka abaal marinta hantiyi waa kee (tee)?

Magaca ardayga	Natiijada xisaabta	Naiijada inqriisiga
Xaliimo	50	81
Ugaaso	65	85
Cusmaan	70	90

### Jawaab

Habka loga shaqeeyo

- 1 Arday waliba natiijadiisa labada maado ayaan isku geynaynaa.
- 2 Wadarta madooyinka waxaan u qaybinaynaa tirade noocayha maadooyinka (tusaalahan tiradu waa laba).
- 3 Natiijada (qaybta ) waxaa loo yaqaanaa celcelis.

Anaga oo taasi raad raacayna

$$\text{Celceeliska xaliimo } \frac{55 + 81}{2} = 68$$

$$\text{Celceeliska ugaaso } \frac{65 + 85}{2} = 75$$

$$\text{Celceeliska cusmaan } \frac{70 + 90}{2} = 80$$

Sidaas darateed ardayga cusmaan madama u helay celceeliska ka sareeyo 75 wuxuu mutaystay in uu abaal gud uu hello

Si loo helo celceliska tirooyin kala duwan dhammaan tirooyinka inta la isugeeyo ayaa wadarta loo qabiyaa tirooyinku inta (tirada) ay ka kooban yihiin.

$$\text{Celceelis 5 iyo 3 waa } \frac{5+3}{2} = 4$$

### Shaqo koox ah

- 1 Ardayadda khardra 3 maadooyin natiijooyinka ay ka heshay waa 55, 65 iyo 75. Waa imisa celceeliska 3 maadooyin ee khadra?
- 2 Khadiija oo ardayad ah natiijooyink ay afar maadooyin ka keentay waa 45, 55, 65 iyo 75. Labada arday khadra iyo khadiija midkoodee baa celceliska natiijooyinkoodu u badan yahay?

### Laylis 7.3

- 1 Muna 3 maadooyin natiijooyin ay ka keentay waa 85, 90, 95. Waa imisa natiijada celceeliska muna?
- 2 Cige maalinwalba wuxuu sameeyaa tababar orod ah. Saddexdii maalmood ee la soo dhaafay maalinkasta tababarada uu sameeyay waxay dhanaa yeen 75 daqiiqo, 65 daqiiqo iyo 85 daqiiqo. Cige maalin kasta imisa daqiiqo oo celcelis ah ayuu tababarka sameeyay?
- 3 Diyaaradaha rakaabka ee Itoobiya ayaa maalinkasta dadka safarka ah u qaaday Adis Aababa ilaa Diridhaba. Xafiiska u qaybsan tigidh diyaaraduhu afar maalnood tirada rakaabka ee uu qaaday sidan hoose ayuu, diiwaan galiyay: 450, 670, 780, 560 waa imisa maalinkasta celceliska dadka safarka ah ee Diri dhaba taga?