



MOPHATO

2

BUKA YA  
MOITHUTI

# Platinum

## Dipalo

M Alves • KJ Whittemore • P Jenkins • J Ponte • S Bota

## Platinum Dipalo Mophato wa 2 Buka ya Morutwana

Maskew Miller Learning  
10 Freedom Way, Milnerton, Cape Town, 7441

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# O a amogelwa mo maitemogelong a rona a thuto

Morutwana yo o rategang,

Re a go amogela mo bukeng eno ya thuto e e kgatlhang thata! O tlile go kopana le batsayakarolo ba ba gakgamatsang; fela jaaka fa motsayakarolo mongwe le mongwe a kgethegile ka tsela ya gagwe, le wena o kgethegile fela jalo!

Mo bukeng ya gago ya thuto o tlile go bona dilo tse di latelang, tse di tla go thusang fa o ntse o ithuta le go ribolola dilo tse dintsi thata.

- **A re simolole:** Setlhogo sengwe le sengwe se simolola ka tshedimosetso e e botlhokwa ya se o tla bong o ithuta ka sone.
- **Nako ya go utulola:** Metshameko e e monate e e tla go kgothaletsang go utulola dikgopolo tse dintšhwa, go ithuta dilo tse dintle le go rarabolola marangrang.
- **Mafoko a mantšhwa:** Ithute mafoko a mantšhwa a a tla go thusang go godisa letlotlo la gago la mafoko.
- **A re bone:** Kwa bokhutlong jwa setlhogo sengwe le sengwe, dira ditiro tseno gore o kgone go nna motlotlo ka se o ithutileng sone!
- **Tlhatlhobo e e Tlhomameng:** Seno se tla tlhatlhoba gore o tthalogantse go le kana kang dilo tsotlhe tse di ntseng di rutiwa mo kgweditharong eo.

Buka eno ya thuto e tla go kgothaletsa go bereka o le mongwe, le ka ditlhopha. Lo tla opela, lo bine lo bo lo ithute mmogo. Tlhomamisa gore o ipaakanyetsa serutwa sengwe le sengwe o bo o botse morutabana dipotso di le dintsi ka mo o ka kgonang ka gone.

Ipaakanyetse go ithuta, go tshameka le go dira tlhama le ditsala tsa gago.

Itumelele go ithuta.

# Diteng

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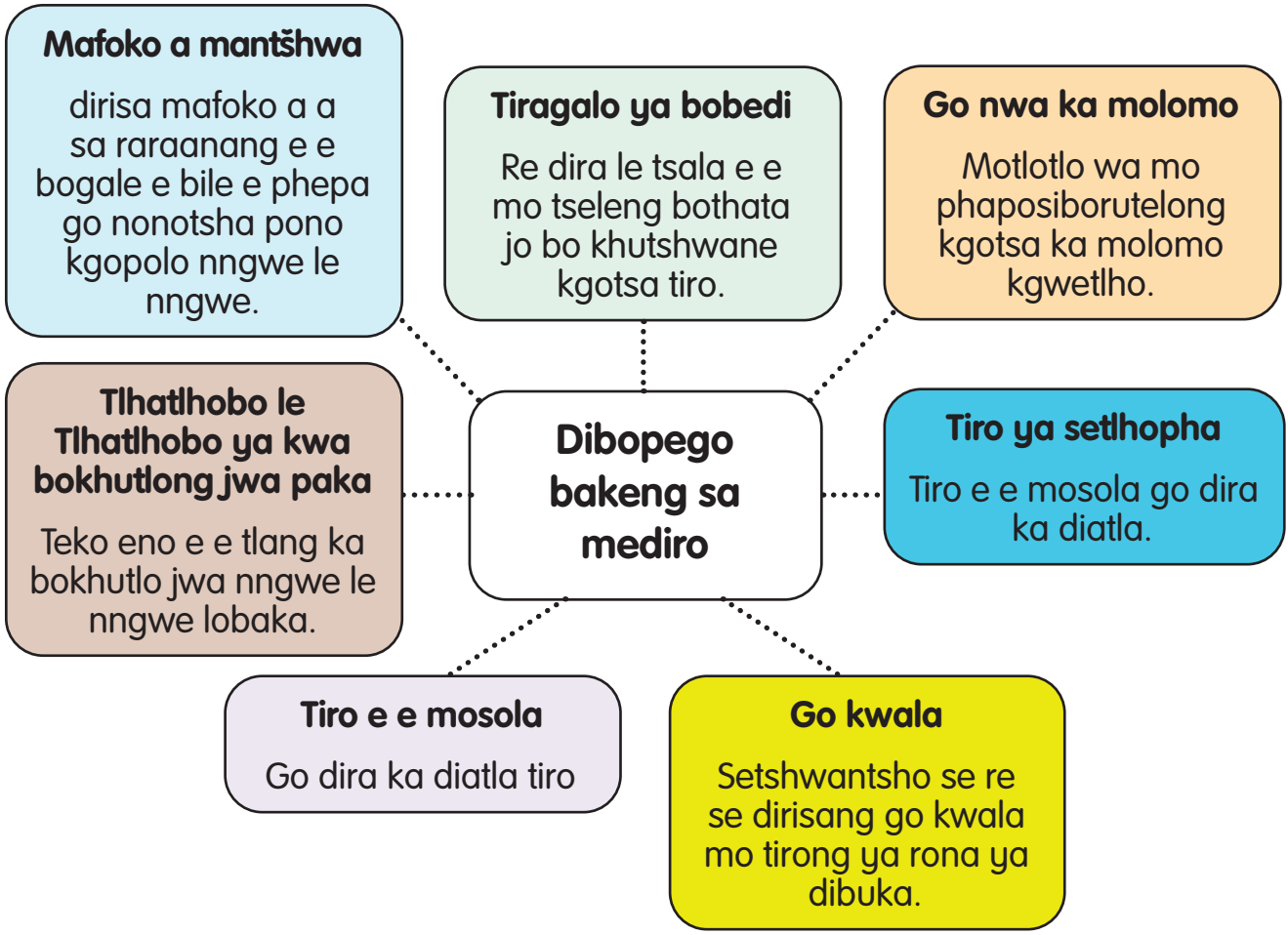
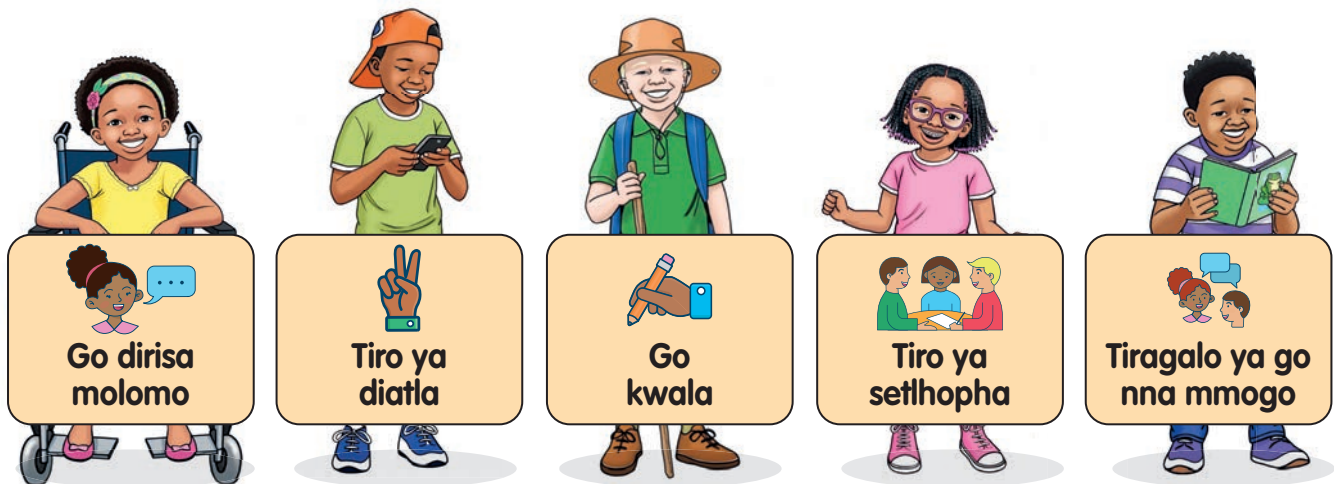


## Kgweditharo 4



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# Ka fao ka dirisang buka eno ka teng



Ipaakanyetse go ithuta, go tshameka le go itlhamela, wena mmogo le ditsala tsa gago. Itumelele go ithuta!

# Kgweditsharo 1: Go aga motheo o o nonofileng wa dipalo!



## Ditlhogo tse di tshwanetseng go rutiwa

- Go bala
- Dipalo tsa tlhogo
- Go bala didirisiwa ka botshepegi
- Matshwaopalo le mainapalo
- Tlhalosa, bapisa le go rulaganya dipalo
- Bolengkemedi
- Go rarabolola mathata a a mo tirisong
- Palelo e e seng mo tirisong
- Tekanyo
- Boalo le popego
- Dipaterone, ditiriso le alejebera

# A re bone gore o itse eng



## Tlhahlobo ya motheo

1. Dirisa molapalo go go thusa go bona dikarabo.



Ka go dirisa molapalo, tloga mo palong e o e neilweng o gatele **kwa pele** ka 1 mme o tshalose gore o gorogile mo palong efe:

- a. 3                                      b. 7                                      c. 11                                      d. 13

Ka go dirisa molapalo, tloga mo palong e o e neilweng o gatele **kwa morago** ka 1 mme o tshalose gore o gorogile mo palong efe:

- a. 15                                      b. 12                                      c. 9                                      d. 6

Ka go dirisa molapalo, tlolela kwa pele go tloga mo palong e o e neilweng mme o tlolela **kwa go e e tsamaisanang le yona** mme o tshalose gore ke palo efe e o e tlotseng e e fa gare ga dipalo tseo:

- a. 3 le 5                                      b. 13 le 15                                      c. 8 le 10                                      d. 7 le 9

2. Kwala maina a dipalo tse:

- a. 16                                      b. 13  
c. 17                                      d. 19  
e. 18

3. Rulaganya dipalo tse:

- a. go tswa go e nnye go ya go e kgolo:  
5; 14; 1; 10; 3; 9; 6; 11  
b. go tswa go e kgolo go ya go e nnye:  
2; 15; 13; 5; 10; 3; 11; 4

4. Araba dipotso. Kwala dikarabo ka mafoko.

- a.  $13 + 1 =$  \_\_\_\_\_  
b.  $11 + 10 =$  \_\_\_\_\_  
c.  $20 + 2 =$  \_\_\_\_\_  
d.  $34 + 0 =$  \_\_\_\_\_  
e.  $25 + 5 =$  \_\_\_\_\_  
f.  $18 + 3 =$  \_\_\_\_\_

5. Tlatsa

$5 + 5 =$

$7 - 5 =$

$6 + 4 =$

$10 - 7 =$

$5 + 3 =$

$7 - 3 =$

$6 + 3 =$

$10 - 9 =$

$5 + 2 =$

$7 - 1 =$

$6 + 2 =$

$10 - 2 =$

# A re simololeng loeto la rona la go bala



**Bala** – o bo o bolele gore di kae

**Bala go ya kwa morago** – go bala go ya kwa morago

**Bala go ya kwa pele** – go bala go ya kwa pele.



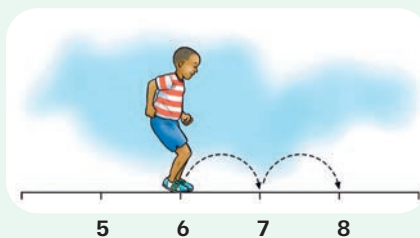
## Nako ya go batlisisa

A re boneng gore re ka kwala maina a bone jang ka Mokwalo wa batho ba ba fufetseng.

|           |                 |
|-----------|-----------------|
| Tino      | ⋮ ⋅ ⋮ ⋮         |
| Siya      | ⋮ ⋅ ⋮ ⋅         |
| Mama Tino | ⋮ ⋅ ⋮ ⋅ ⋮ ⋅ ⋮ ⋮ |

## Sekao se se berelikweng

- I. Tino o ne a bala go fitlha go lesome a bo a tlola dipalo tsothe gore a di fetse.



**a. Go bala ka bo 1**

1; 2; 3; 4; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_;  
 \_\_\_\_\_; 10

**b. Go bala ka bo 2**

33; 35; 37; \_\_\_\_\_;  
 \_\_\_\_\_; \_\_\_\_\_

**c. Go bala ka bo 5**

50; 55; 60; \_\_\_\_\_;  
 \_\_\_\_\_; \_\_\_\_\_

**d. Go bala ka bo 10**

\_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_;  
 60; 70; 80; \_\_\_\_\_; \_\_\_\_\_

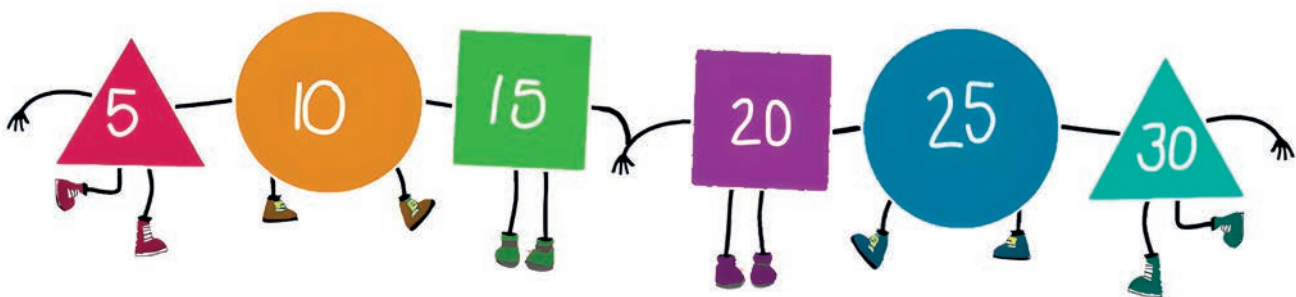
**Dikarabo:**

a. 1; 2; 3; 4; 5; 6; 7; 8; 9; 10

b. 33; 35; 37; 39; 41; 43; 45; 47

c. 50; 55; 60; 65; 70; 75; 80

d. 10; 20; 30; 40; 50; 60; 70; 80; 90; 100





## Tirwana

I. Kopa go tlatsa go bala go ya kwa pele le kwa morago.

a. 23; 24; 25; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_;  
 \_\_\_\_\_; 31; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_

b. \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; 53; 54; 55; \_\_\_\_\_;  
 \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_

c. 70; 72; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_;  
 \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_

d. 40; 38; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_;  
 \_\_\_\_\_; 26; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_

e. 15; 20; 25; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_;  
 45; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_

f. 55; 50; 45; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_;  
 \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_

g. 90; 80; 70; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_;  
 \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_

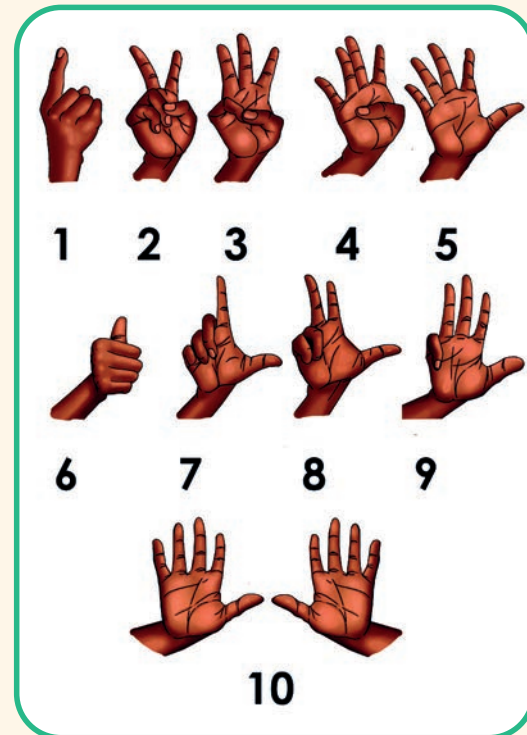
h. \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; 50; 60; 70;  
 \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_

# Go batlisisa dipalo



## Nako ya go batlisisa

Nngwe ya dipuo tse di buiwang mo Afrika Borwa ke puo ya diatla, e mo go yone barutwana ba kgonang go bala ba dirisa menwana ya bone. A re baleng go fitlha go lesome re dirisa puo ya diatla.



**Go batlisisa** – ithute ka sengwe se sešwa.

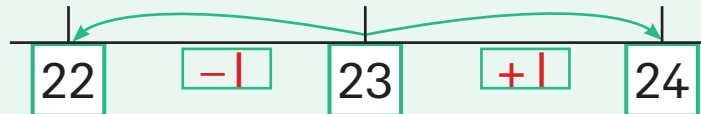
**Go bala** – go bua dipalo gore o tle o itse gore go na le di le kae.

**Go tlhakanya (+)** e raya go kopanya dipalo/ditlhopa go bona palogotlhe.

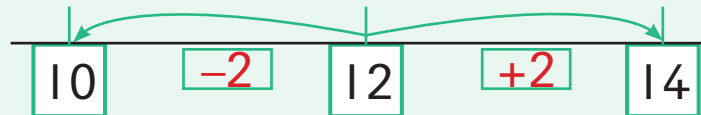
**Go fokotsa (-)** go raya go tlosa kgotsa go ntsha dipalo dingwe go bona gore go setse di le kae.

## Sekao se se berekilweng

|    |                                      |                                      |
|----|--------------------------------------|--------------------------------------|
| 1. | Go bala ka <b>bo 1</b><br>o dirisa - | Go bala ka <b>bo 1</b><br>o dirisa + |
|    | $23 - 1 = 22$                        | $23 + 1 = 24$                        |



|    |                                      |   |
|----|--------------------------------------|---|
| 2. | Go bala ka <b>bo 2</b><br>o dirisa - | Go bala ka in <b>bo 2</b><br>o dirisa + |
|    | $12 - 2 = 10$                        | $12 + 2 = 14$                           |



|    |                                      |   |
|----|--------------------------------------|---|
| 3. | Go bala ka <b>bo 5</b><br>o dirisa - | Go bala ka in <b>bo 5</b><br>o dirisa + |
|    | $15 - 5 = 10$                        | $15 + 5 = 20$                           |



|    |                                       |                                       |
|----|---------------------------------------|---------------------------------------|
| 4. | Go bala ka <b>bo 10</b><br>o dirisa - | Go bala ka <b>bo 10</b><br>o dirisa + |
|    | $20 - 10 = 10$                        | $20 + 10 = 30$                        |





## Tirwana

I. Tlatsa dipalo tse di tlaelang mo ditafoleng tse di fa tlase

$$\text{a. } 67 + \underline{\quad\quad} = 68$$

$$\text{b. } 67 - \underline{\quad\quad} = 66$$

$$\text{c. } \underline{\quad} + 2 = 76$$

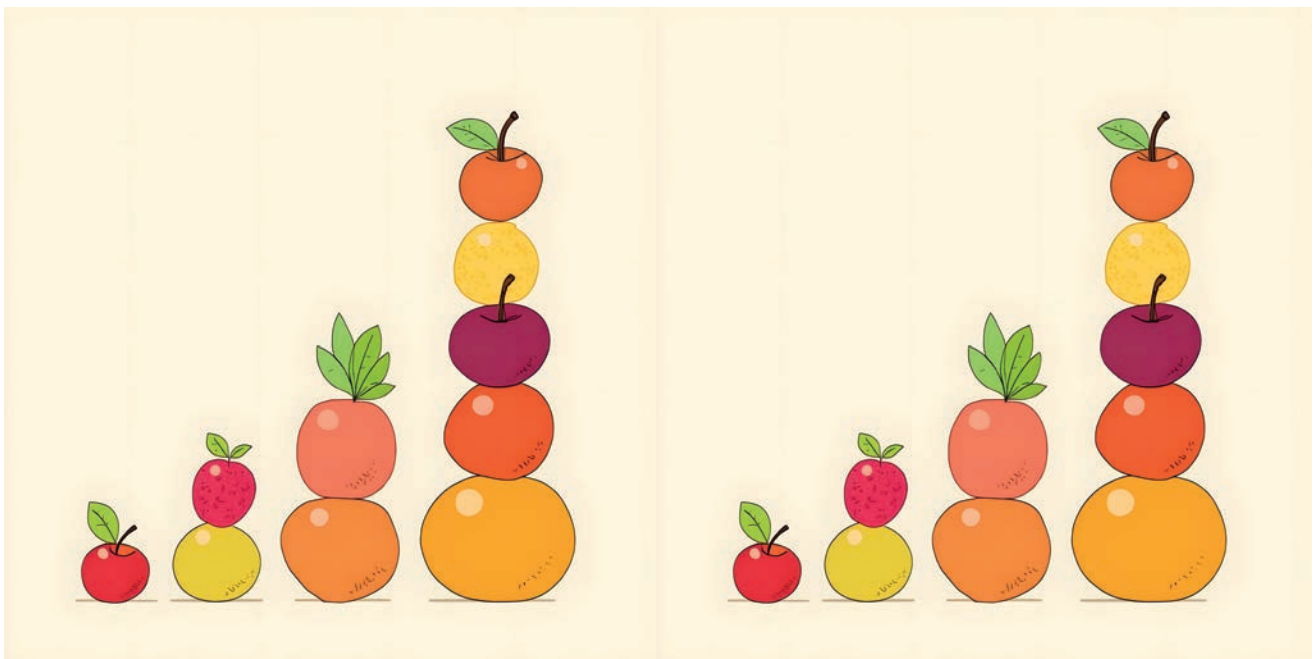
$$\text{d. } \underline{\quad\quad} - 2 = 72$$

$$\text{e. } 80 + \underline{\quad\quad} = 85$$

$$\text{f. } 80 - \underline{\quad\quad} = 75$$

$$\text{g. } 90 + \underline{\quad\quad} = 100$$

$$\text{h. } 90 - \underline{\quad\quad} = 80$$



# Go feta kgotsa kwa tlase ga

A re sekasekeng tsela e e kgatlang ya go bapisa dipalo. A o kile wa ipotsa gore o ka itse jang gore a palo nngwe e kgolo go feta e nngwe kgotsa e potlana go feta e nngwe? Seo ke sone se “go feta” kgotsa “kwa tlase ga” di se kayang! Fa o re palo e feta e nngwe, go raya gore e kgolo kgotsa e kgolwane.



## Tirwana

1. Kwala gore palo e feta kgotsa e kwa tlase ga

a. 2 \_\_\_\_\_ 4

b. 8 \_\_\_\_\_ 4

c. 14 \_\_\_\_\_ 28

d. 50 \_\_\_\_\_ 25

e. 40 \_\_\_\_\_ 80

f. 15 \_\_\_\_\_ 3

g. 9 \_\_\_\_\_ 45

h. 75 \_\_\_\_\_ 15

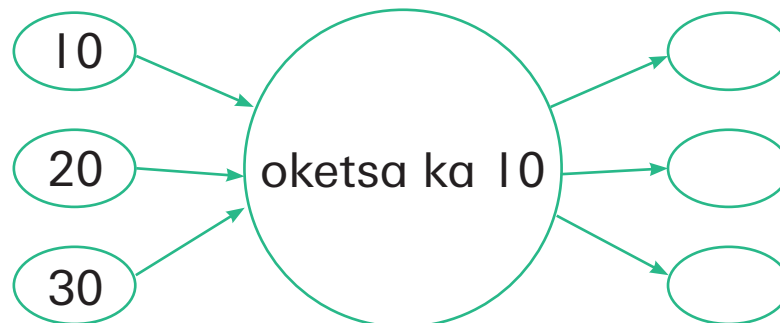
i. 10 \_\_\_\_\_ 90

j. 100 \_\_\_\_\_ 50

k. 30 \_\_\_\_\_ 60

m. 100 \_\_\_\_\_ 25

2. Tlatsa bobi jwa segokgo jo bo fa tlase ka ditekanetswa tsa ga 10



# Go tswa kwa tshimologong go ya kwa bokhutlong

Akanya fela o palama lere kgato ka kgato - go tshwana le go baya dipalo ka thulaganyo e e tthatlogang, mo palo nngwe le nngwe e nnang kgolo le go feta! Jaanong, akanya ka go theoga mo sekgatshing - go tshwana le go ya kwa tlase, koo dipalo di nnang dinnye le go feta.

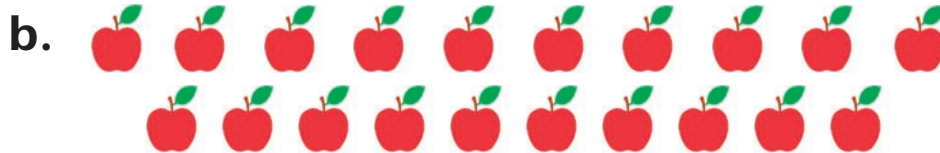


## Tirwana 1

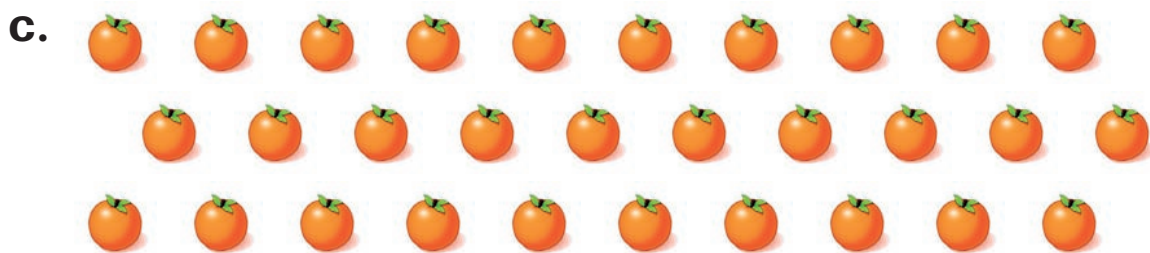
- I. a. Fopholetsa, o bale o be o kwala go re didirisiwa ke tse kae.



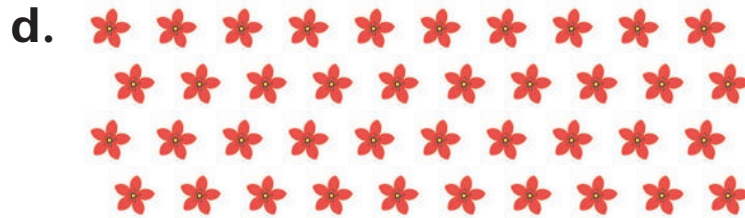
Fopholetsa: \_\_\_\_\_ o badile gore digwete ke tse kae \_\_\_\_\_?



Fopholetsa: \_\_\_\_\_ o badile gore diapole ke tse kae \_\_\_\_\_?



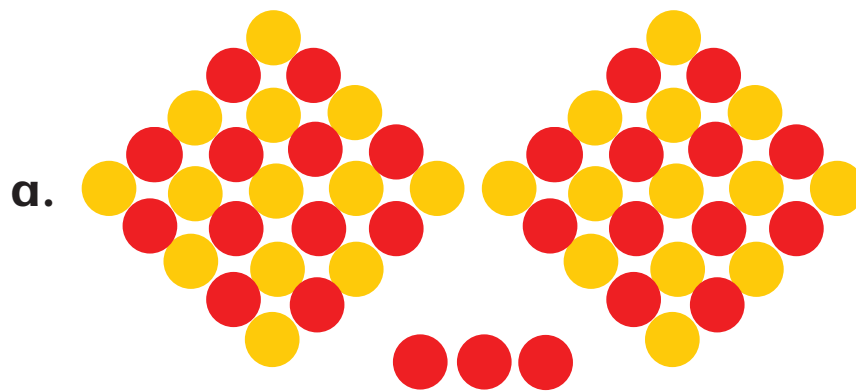
Fopholetsa: \_\_\_\_\_ o badile gore diperekisi ke tse kae \_\_\_\_\_?



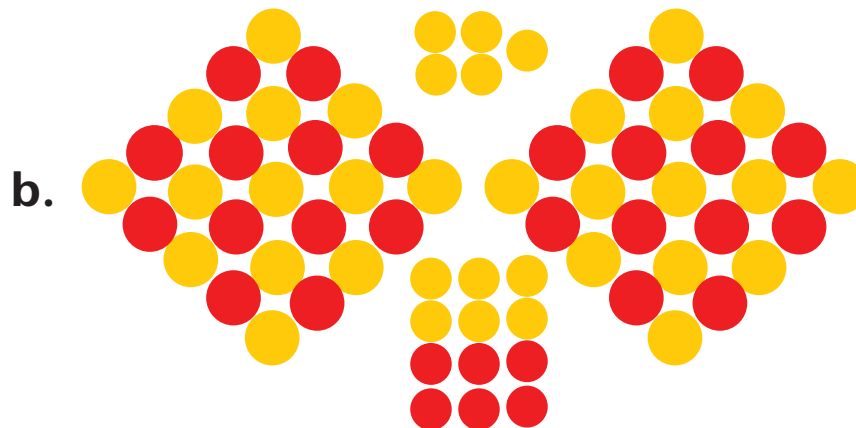
Fopholetsa: \_\_\_\_\_ o badile gore dithunya ke tse kae \_\_\_\_\_?



2. Fopholetsa le go bala le ditsala tsa gago ka go kwala dikarabo tsa lona.



Fopholetsa: \_\_\_\_\_ wena le ditsala tsa gago lo ne lwa bala diboloko di le kae \_\_\_\_\_?

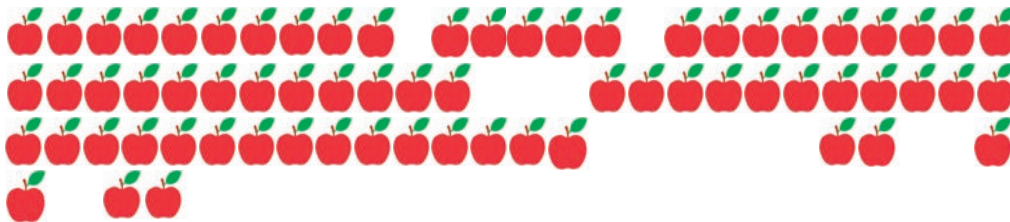




## Tirwana 2

Dirisa tshedimosetso e e fa tlase fano go araba dipotso tse di mo bukeng ya gago ya go ithuta.

1. Simolola ka go fopholetsa palo ya diapole o bo o di bala.



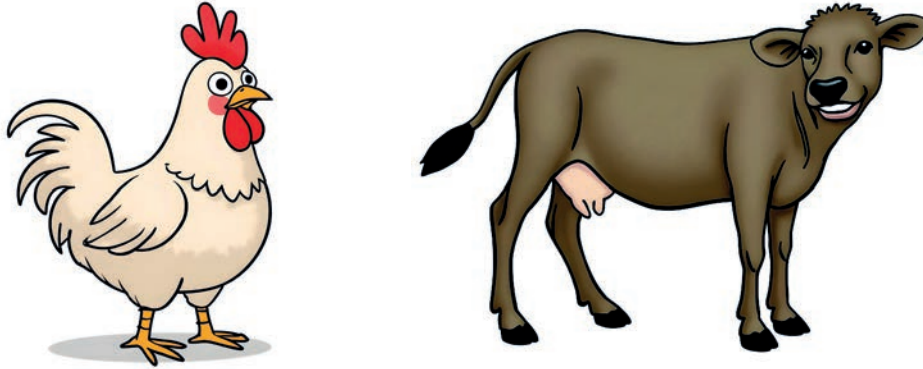
Bala diapole o bo o kwala karabo ya gago.

2. Bala gore o bona bana le diatla di le kae.



- a. Go na le bana ba le \_\_\_\_\_.
- b. Go na le diatla di le \_\_\_\_\_.

3. Mo polasing, go na le dikgomo le dikoko.

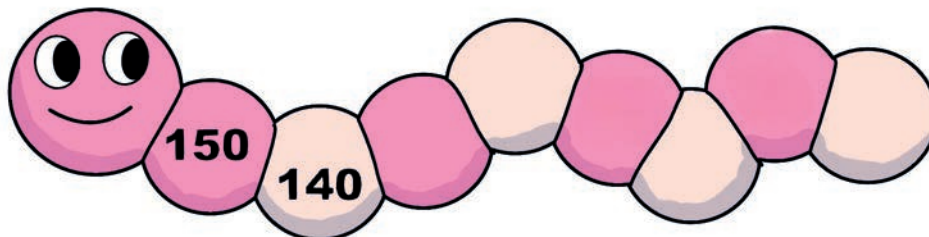


a. Fa e le gore koko e le nngwe e na le maoto a le mabedi, dikoko tse di lesome di na le maoto a le kae? Kwala palogotlhe go go thusa go bala.


Dikoko tse 10 dina le maoto a le \_\_\_\_\_.

b. Fa kgomo e le nngwe e na le maoto a le mane, dikgomo di le 5 di na le maoto a le kae? Kwala palogotlhe e e tla go thusang go bala maoto.

Dikgomo di le 5 di na le maoto a le \_\_\_\_\_.



# Go bala le go peleta

Matshwaopalo ke matshwao a a kgethegileng a re a dirisang go bontsha gore re na le dilo di le kae. Sekai, letshwao “1” le re bolelela gore re na le selo se le sengwe, jaaka apole e le **nngwe**. 



## Tirwana

### I. Motshameko wa go tsamaelana

a. Dirisa pampiri e e setseng go dira dikarata tseno.

nngwe | pedi | tharo | nne | tlhano | thataro | supa | robedi | robonngwe | lesome

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10

b. Kopa mongwe mo sethopheng sa lona gore a tlhakanye dikarata tsothe.

c. Morutabana o tla le naya letshwao, gore sethlopha sotlhe se dire gore maina a dipalo a tsamaisane le matshwao a dipalo.

nngwe | pedi | tharo | nne | tlhano



thataro | supa | robedi | robonngwe | lesome



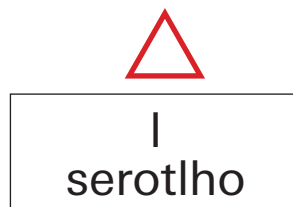


## Nako ya go batlisisa

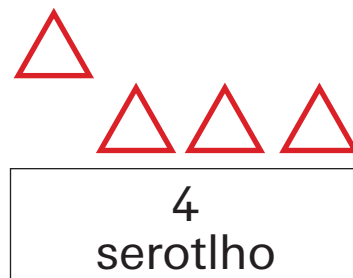
A o ne o itse gore mo mmusomogolong wa Roma, ba ne ba dirisa matshwao a Seroma go kwala dipalo?

I II III IV V VI VII VIII IX X XI XII

### Di feta



### Dipotlana go



E kgolo -  
E feta

E nnye -  
potlana

## Sekao se se berekilweng

1. a. Dirisa mafoko **e kgolo go**, **e potlana go** or **e lekana le**, go feleletsa seele 11 e \_\_\_\_\_ 12.

**Karabo:**

- 11 e **potlana go** 12
- 11 e **kwa tlase ga** 12 ka 1

2. Dirisa mafoko **e kgolo go**, **e potlana go** or **e lekana le**, go feleletsa seele 14 e \_\_\_\_\_ 12.

**Karabo:**

- 14 e **potlana go** 12
- 14 e **e kgolo go** 12

3. Dirisa mafoko **e kgolo go**, **e potlana go** or **e lekana le**, go feleletsa seele 16 e \_\_\_\_\_ 19.

**Karabo:**

- 16 e **potlana go** 19
- 16 e **kwa tlase ga** 19 ka 3

4. Dirisa mafoko **e kgolo go**, **e potlana go** or **e lekana le**, go feleletsa seele 20 e \_\_\_\_\_ 24.

**Karabo:**

- 20 e **potlana go** 24
- 20 e **kwa tlase ga** 24 ka 4


**Tirwana**

1. Dirisa mafoko a a mo lebokosong leno go feleletsa polelwana nngwe le nngwe.

|                |            |             |
|----------------|------------|-------------|
| e kwa tlase ga | e kgolo go | e lekana le |
|----------------|------------|-------------|

|                            |                            |                            |                            |
|----------------------------|----------------------------|----------------------------|----------------------------|
| e kwa<br>godimo ka<br>1 go | e kwa<br>godimo ka<br>2 go | e kwa<br>godimo ka<br>3 go | e kwa<br>godimo ka<br>4 go |
|----------------------------|----------------------------|----------------------------|----------------------------|

|                        |                        |                        |                        |
|------------------------|------------------------|------------------------|------------------------|
| e kwa tlase<br>ka 1 go | e kwa tlase<br>ka 2 go | e kwa tlase<br>ka 3 go | e kwa tlase<br>ka 4 go |
|------------------------|------------------------|------------------------|------------------------|

a. 9 \_\_\_\_\_ 10.

9 \_\_\_\_\_ 10

c. 18 \_\_\_\_\_ 21.

18 \_\_\_\_\_ 21

b. 13 \_\_\_\_\_ 11.

13 \_\_\_\_\_ 11

d. 19 \_\_\_\_\_ 15.

19 \_\_\_\_\_ 15

2. Rulaganya dipalo tse ka thulaganyo go tswa go tse dikgolo go ya go tse dinnye.



3. Rulaganya dipalo tse ka thulaganyo go tswa go tse dinnye go ya go tse dikgolo.



4. Tlhalosa le go kwala leina la kago e e kwa godimo go di feta tsotlhe le e e kwa tlase go di feta tsotlhe mo lefelong la sekolo.



### Tirwana ya Tiragatso

- I. Itirele ditshwantsho tsa gago gore di tshwane le dipolelwana tse di nang le dipalo.
- $10 + 5 = 15$  (dinamunu)
  - $10 + 2 = 12$  (diapole)
  - $4 + 10 = 14$  (dibolo)
  - $15 + 5 = 20$  (dipere)
  - $17 + 7 = 24$  (diterebe)

# Dipalo tsa tlhogo

Simolola ka se se fi lweng e leng 5 mme o bale ka bo 2.

Kwala palo 2 e feta 8: Leba sekao. E re e filweng ke 8.

Gone jaanong

bala ka 2. O wela mo go 10 ka jalo karabo ya gago ke 10.



## Tirwana

- Bala go ya kwa pele ka 1.  
a. 6    b. 4    c. 11    d. 13    e. 9
- Bala go ya kwa morago ka 1.  
a. 4    b. 12    c. 2    d. 7    e. 15
- Bala go ya kwa pele ka 2.  
a. 2    b. 5    c. 11    d. 13    e. 10
- Bala go ya kwa pele ka 2.  
a. 2    b. 15    c. 8    d. 3    e. 12
- Dirisa molapalo ono go go thusa go bala mme o bolelele tsala ya gago karabo e e tlhokagalang.



- a. 1 go feta 14; 2; 11; 10; 3
- b. 2 go feta 7; 9; 11; 13; 6
- c. 1 e kwa tlase ga 13; 15; 2; 9; 4
- d. 2 e kwa tlase ga 9; 5; 14; 10; 2

### Sekao se se berekilweng

Zara o ne a rata go thusa ditsala tsa gagwe.

O ne a ba bontsha ka fa dipalo tseno di latelanang ka gone: 12; 9; 10; 7; 15; 4 go tloga ka e nnye go ya go e kgolo.

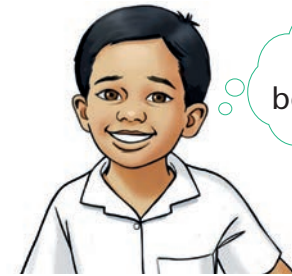
O ne a re: “Palo e nnye go di feta tsotlhe ke 4, ka jalo simolola ka 4”.



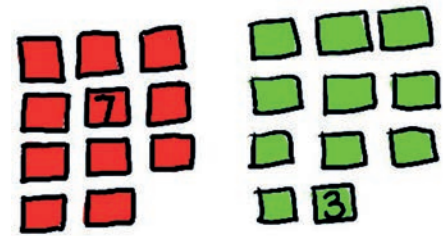
6. Rulaganya dipalo tseno ka thulaganyo go tswa go tse dinnye go ya go tse dikgolo. Gape re ka re: rulaganya dipalo tseno ka tatelano e e tthatlogang.
- a. 15; 12; 1; 5; 9; 14; 8; 3
  - b. 6; 13; 2; 11; 4; 10; 7; 12

# Bapisa dipalo go fitlha go masomepedi

Mmemogolo wa ga Nathan e ne e le morutabana mme o ne a rata go tshameka metshameko ya dipalo go thusa baithuti gore ba itumelele go ithuta ka dipalo. Seno ke motshameko o o kgethegileng thata o Nathan a ka ratang go o lo bolelela gompiano. Ke motshameko wa popo ya dipalo tsa bosome.

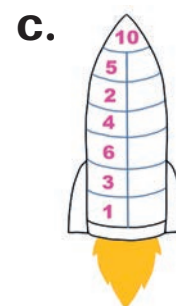
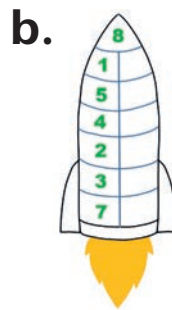
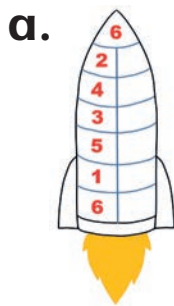


Ha re bapaleng

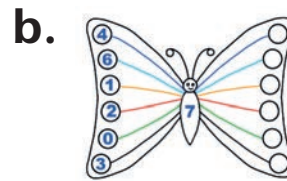
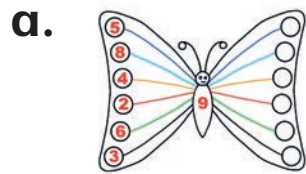


Selo se se molemo le go feta ke gore mmemogoloagwe o ne a ba letla gore ba itirele metshameko ya bone. O tla go bontsha gore o ka dira jang gore motshameko wa gago o atlege

1. 10; 9; 8; 7; 6; 5; 4; 3; 2; 1 Go tlola! Dirokete di tlhoka thuso ya gago gore di kgone go bona dipalo tse di tlhaelang pele ga di ka fofa.



2. O dirile sentle! Jaanong bona gore a o ka kgona go bona dipopo tseno tse di tlaelang. Kopa dirurubele tseno mme o bo o feleletsa dipopo.

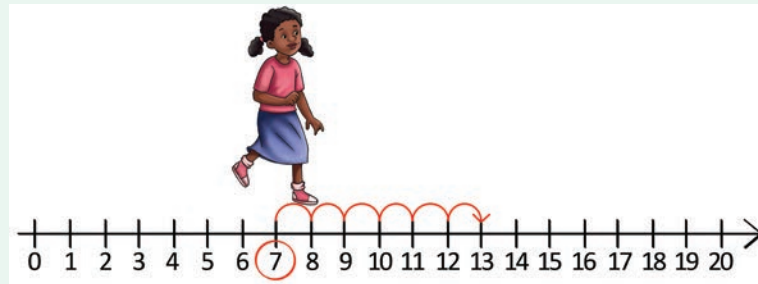


3. Kwala dikarabo

|           | 10 go feta | 2 e kwa tlase ga | 1 go feta | 10 e kwa tlase ga |
|-----------|------------|------------------|-----------|-------------------|
| Sekao. 12 | 22         | 10               | 13        | 2                 |
| a. 15     |            |                  |           |                   |
| b. 20     |            |                  |           |                   |
| c. 18     |            |                  |           |                   |
| d. 14     |            |                  |           |                   |

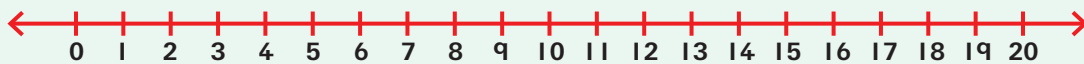
## Sekao se se berekilweng

Leba molapalo ono. O go bontsha gore o ka dira jang dipalo o dirisa molapalo



★ + go raya gore re tla kgona go fitlhelela palo e e kwa godimo.

★ Re ne ra simolola ka 7 mme ra ya kwa go 6. Re ne ra wela go 13, ka jalo eo ke karabo ya rona



### Tirwana 1

1. Kwala molapalo wa palogotlhe nngwe le nngwe go bontsha gore o bone dikarabo tsa gago jang.



a.  $11 + 6 =$  \_\_\_\_\_

b.  $9 + 8 =$  \_\_\_\_\_

c.  $15 + 4 =$  \_\_\_\_\_

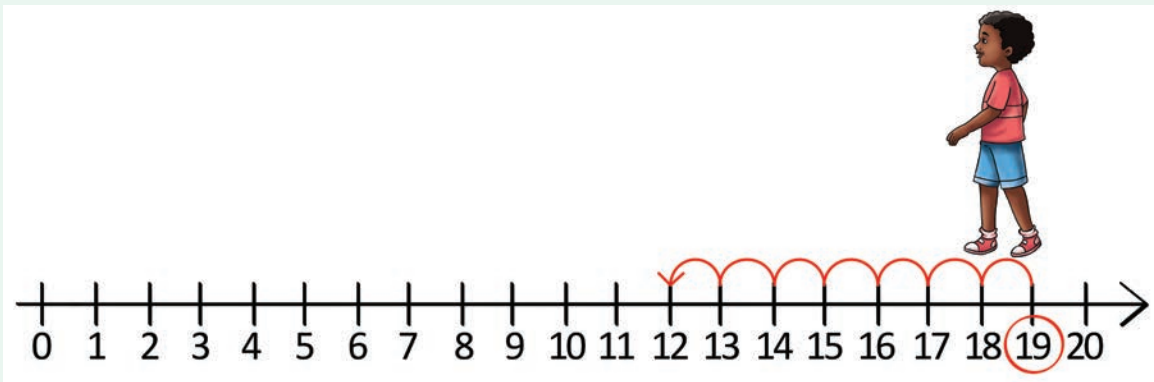


## Sekao se se berekilweng

Leba molapalo ono.

o go bontsha gore o ka ntsha jang ka go dirisa molapalo.

$$19 - 8 = 12$$



★ – Go raya gore re tshwanetse go ya kwa dipalong tse dinnye. Re simolotse ka 19 mme ra boela morago ka 8. Re ne ra wela go 12, ka jalo eo ke karabo ya rona.



## Tirwana 2

2. Kwala molapalo wa palogotlhe nngwe le nngwe go bontsha gore o bone dikarabo tsa gago jang.



a.  $15 - 9 = \underline{\hspace{2cm}}$

b.  $20 - 6 = \underline{\hspace{2cm}}$

c.  $18 - 11 = \underline{\hspace{2cm}}$

- Dirisa tafole eno ya 100 go go thusa go bona dikarabo.
- O kgona go tlolela kwa pele le kwa morago mo tafoleng ya 100 fela jaaka o dira mo molapalong.
- E ya kwa palong e o e filweng o bo o bala go ya pele kgotsa go ya kwa morago.

|    |  |  |  |  |  |  |  |  |     |
|----|--|--|--|--|--|--|--|--|-----|
| 1  |  |  |  |  |  |  |  |  | 10  |
| 11 |  |  |  |  |  |  |  |  | 20  |
| 21 |  |  |  |  |  |  |  |  | 30  |
| 31 |  |  |  |  |  |  |  |  | 40  |
| 41 |  |  |  |  |  |  |  |  | 50  |
| 51 |  |  |  |  |  |  |  |  | 60  |
| 61 |  |  |  |  |  |  |  |  | 70  |
| 71 |  |  |  |  |  |  |  |  | 80  |
| 81 |  |  |  |  |  |  |  |  | 90  |
| 91 |  |  |  |  |  |  |  |  | 100 |

3. Kwala palo e e fetang 10 ya ga:

- a. 10                                      b. 30                                      c. 27  
 d. 16                                      e. 45

4. Kwala palo e nnye go 10 ya ga:

- a. 99                                      b. 70                                      c. 82  
 d. 54                                      e. 68

## Sekao se se berekilweng

Ka nako ya go tshameka, Neo, Andile le Sabatha ba ne ba tsaya dikgetsi tsa bone tsa dimmabole tsa go tshameka. Andile o ne a tshwere dimmabole di le nne, Neo ene di le robedi. Sabatha o ne a na le tse 3 go feta Andile.



**Dimmabole tsa ga Andile** –

**Dimmabole tsa ga Jack** –

**Dimmabole tsa ga Yin-Lee** –

1. Moithuti mongwe le mongwe o ne a na le dimmabole di le kae?

**Karabo:**

Andile o ne a na le tse 4; Jack o ne a na le tse 8; Yin-Lee o ne a na le tse 7.

2. **Morago ga go tshameka:**

- a. Jack o ne a na le halofo fela ya dimmabole tsa gagwe.

**Karabo:**

- a. Jack o ne a na le 4 (halofo ya 8 = 4)

- b. Andile o ne a okeditse dimmabole tsa gagwe gabedi.

**Karabo:**

- b. Andile o ne a na le 8 (go menagane gabedi ga 4 go lekana le 8)
- c. Yin-Lee o ne a sa ntse a na le dimmabole tse di lekanang.

**Karabo:**

- c. Yin-Lee o ne a na le 7.
3. a. Andile o ne a tsaya dimmabole di le nne mo go Jack. Jack o setse ka dimmabole di le kae?

**Karabo:**  $8 - 4 = 4$  dimmabole

- b. Andile o ne a newa dimmabole di le 4 tse digwe, le 4 enngwe mme morago ga moo a newa a gape tse di 4.

**Karabo:**

$$4 + 4 + 4 + 4 = 8 + 8 = 16$$

Dimmabole tse di oketsegileng



## Tirwana

Rasheed o na le ditshamekisi di le pedi mme Alma ene o na le di le nne.

1. Mongwe le mongwe wa bone o ne a na le ditshamekisi di le kae?
2. Morago ga go tshameka:
  - a. Alma o ne a na le halofo ya dipalo.
  - b. Rasheed o ne a okeditse palo ya dimmabole tsa gagwe gabedi.
  - c. Alma o ne a newa ditshamekisi tse dingwe gape di le tharo.
3.
  - a. Rasheed o ne a tsaya mabole a le mabedi mo go Alma. Alma o setse ka dimmabole di le kae?
  - b. Rasheed o ne a fiwa dimmabole tse dingwe gape di le 2, le tseding gape di le 2 mme morago ga moo a fiwa tse dingwe gape di le 2. Rasheed o na le dimmabole di le kae?

# Mathata a madi

[Buka ya DBE tsebe 52-55 e ka ba thusa go tihaloganya madi botoka.]

## Poppy oithuta ka ga madi a setseng

Letsatsi lengwe, Poppy o ne a ya go reka le kgaitسادie yo mogolo, e bong Sarie. Poppy o ne a duela R20, mme mong wa lebenkele o ne a mo busetsa madi mangwe. Poppy o ne a ipotsa gore, “**Madi a setseng** ke eng?” Madi a a setseng ke madi a o a amogelang fa o duela go feta tlhwathwa ya selo se o se rekileng.






**Tirwana**

**Madi a setseng a R20**



| Selo   | Tlhwatlwa | Madi a setseng  |
|--|-----------|---|
| 1.    | R8,00     | <b>Mohlala:</b><br>Fa o reka lebese la R8,00, madi a setseng ke <b><math>R20 - R8 = R12,00</math></b> |
| 2.   | R15,00    | Fa o reka lebese la R15,00, madi a setseng ke?  |
| 3.  | R11,00    | Fa o reka lebese la R11,00, madi a setseng ke?  |
| 4.  | R6,00     | Fa o reka lebese la R6,00, madi a setseng ke?   |
| 5.  | R13,00    | Fa o reka lebese la R13,00, madi a setseng ke?  |

## Tlhokomeliso: Ka metha kwala R kgotsa C fa o bala madi [WB 1: 12 - 13]

### Go Reka dilwana tsa sekolo

|                 |                  |                                    |                       |                          |                   |
|-----------------|------------------|------------------------------------|-----------------------|--------------------------|-------------------|
| Rulara<br>R1,50 | Siphomodi<br>50c | lebokoso la<br>dikerayone<br>R5,00 | Sekgomaretsi<br>R2,50 | buka ya<br>tiro<br>R4,00 | Seloetsi<br>R1,00 |
|-----------------|------------------|------------------------------------|-----------------------|--------------------------|-------------------|

1. Ke eng se se jang madi a mantsi?
2. Ke eng se o ka se reka go R5,00? Leka go bona dikopanyo di le dintsi ka mo o ka kgonang ka teng
3. Fa o ne o ka reka dilo tseno tsotlhe o bo o duela R15,00, o ne o tla nna le amdi a kae a setseng?

Bontsha tsela e o akanyang ka yone mo bukeng ya gago ya go ikatisa.



Dira lenaane le lekhutshwane la dilo dingwe tse o ka ratang go di rekela sekolo. O akanya gore di ka ja madi a le kana kang?

# Go Bala go se mo tirisong

Go oketsa go boelediwa ke tsela ya go bala ka bonako ka go tsenya palo e e tshwanang gantsi, e e jaaka go oketsa ka dipalo tse di tshwanang kalo-kalo.



## Tirwana

1. Bala kwa godimo ka bobedi. Kwala dikatanetswa tsothle tsa 2 go tloga go 2 go ya go 20.

|    |    |    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|----|----|
| 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |

2. Kopa le go tlatsa dipalo tsa terena tse di fa tlase fano.

- a.  $2 + 2 = \underline{\hspace{2cm}}$   
b.  $2 + 2 + 2 = \underline{\hspace{2cm}}$   
c.  $2 + 2 + 2 + 2 = \underline{\hspace{2cm}}$   
d.  $2 + 2 + 2 + 2 + 2 = \underline{\hspace{2cm}}$

Mme o ne a ipotsa gore go tla tsamaya jang fa re ka dirisa molapalo.

3. a.  $10 + 5 = 15$     $15 - \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$  le  $15 - \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$   
b.  $10 + 1 = 11$     $11 - \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$  le  $11 - \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$   
c.  $10 + 4 = 14$     $14 - \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$  le  $14 - \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$   
d.  $10 + 2 = 12$     $12 - \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$  le  $12 - \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$

4. Dirang ka bobedi. Nna le pampiri le pensele tse o ka di dirisang mmogo. Dirang ditiro tse di latelang ka go refosana.

O oketse palogo menagane gabedi. Kwala palogothle e e tsamaisanang le yone.

|                         |                             |
|-------------------------|-----------------------------|
| Morutwana <b>A</b> are: | Morutwana <b>B</b> o kwala: |
| sekao: 1 emenagane      | Sekao $1 + 1 = 2$           |
| <b>a.</b> 3 emenagane   | _____ + _____ = _____       |
| <b>b.</b> 4 emenagane   | _____ + _____ = _____       |
| Morutwana <b>B</b> are: | Morutwana <b>B</b> o kwala: |
| <b>a.</b> 2 emenagane   | _____ + _____ = _____       |
| <b>b.</b> 5 emenagane   | _____ + _____ = _____       |

5. Ka bobedi, refosanang go bala ka ga 5s go tloga ya go 20. O akanya gore palo eo e ne e tla lebega jang?

## Treezy - Sethare sa Dipalo sa Malepa

Mo lefatsheng la dipalo, go ne go na le setlhare sa malepa se se bidiwang Treezy. Treezy o ne a na le maungo a a kgethegileng a a neng a ka thusa go ithuta dipalo. Letsatsi lengwe, Lily le Max ba ne ba etela Treezy ba tlile le kgwetlho e e monate. Ba ne ba batla go phutha maungo a le 20 ka bonako ba dirisa maatla a ga Treezy a malepa.



### Tirwana

- I. Leba setshwantsho mme o bo o tlatsa dipalo tse di tlaelang:



- a. Go na le madi a tshipi a le \_\_\_\_\_ mo setshwantshong.
- b. Bala ka bobedi:  $2 + 2 + 2 =$  \_\_\_\_\_
- c.  $3 \times 2 = 2 + 2 +$  \_\_\_\_\_  $=$  \_\_\_\_\_
- d.  $2 + 2 + 2 =$  \_\_\_\_\_  $\times 2 =$  \_\_\_\_\_

## Maitemogelo a magolo a ga Paddy le Pieter

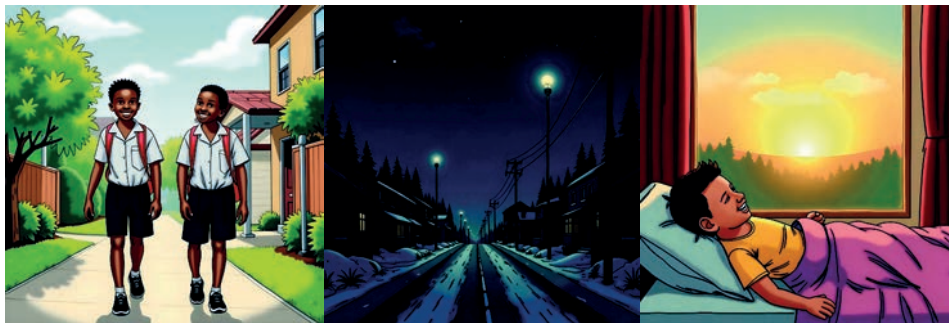
Bogologolo tala, mo torotswaneng nngwe e e nang le botshelo jo bo monate, go ne go na le ditsala tse pedi tse dikgolo e bong Paddy le Pieter. Ba ne ba rata go ithuta le go ijesa monate mmogo. Moso mongwe o o nang le letsatsi, ba ne ba swetsa ka gore ba tseye loeto lo lo kgethegileng go ya go ithuta le go bona dilo tse di neng di le mo toropong ya bone.



### Tirwana

[Buka ya DBE tsebe 26-27 e ka dirisiwa jaaka tiro ya sekolo e e direlwang kwa gae]

1. A re thuseng Paddy le Pieter go baya ditshwantsho tseno ka thulaganyo e e siameng go tloga mo mosong go fitlha maitseboa.



A. Bosigo

B. Thapama

C. Mo mosong

2. O tshwanetse go tlhapa meno leng?

3. Ke tsela efe ya dipalangwa e e tla go isang kwa sekolong ka bonako? Kwala mefuta ya dipalangwa go ya ka tatelano go tloga ka e e ka bonako go ya go e e bonya.

Ntlha e o ka e dirisang: Dirisa ditshwantsho go go thusa go bona gore ke sepalangwa sefe se se ka bonako le gore ke sefe se se bonya

4. Ke nako mang mo ditshupanako tseno?

a.



b.



## Motshameko wa go lekanya ka kokoano ya go robala

Thandi le ditsala tsa gagwe ba na le kokoano ya go robala. Ba swetsa go tshameka motshameko mongwe. Ba ne ba tshwanelwa ke go batla dilo di le 3 mo boapeelong gore ba tle ba di lekanye. Thusa Thandi le ditsala tsa gagwe go lekanya dilo tse di fa tlase fano.

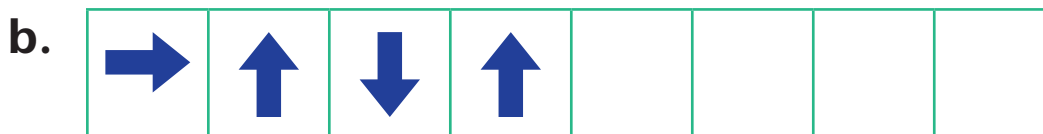


### Tirwana 1

1. Thusa ditsala tsa Marilize go batlisisa dipaterone. Boaboeletsa dipaterone makgetlo ale 4.



2. Thala dipaterone tsa jeometeri tseno mo bukeng ya gago o be o difeletele.



## Kgweditharo 1

Diselennere di sephaphathi kwa godimo mme di sephaphathi kwa tlase. Dikgolokwe le diselennere di farologane le Matlhakore mabapitekano. Ga di na matlhakore a a tihamaletseng. Di na le matlhakore a a kobegileng.



## Tirwana 2

[Buka ya DBE tsebe 66-67 go atolosa kitso]

Araba dipotso tsothe tse di mo bukeng ya gago ya ditiro.

1. Akanya ka sekao se sengwe sa kgolokwe le selennere tse di seyong mo setshwantshong.
2. Ke efe ya dilo tse di fa godimo tseno tsa 3D e e kgonang go dikologa?
3. Ke ofe wa bone yo o kgonang go sutisa?
4. Ke efe ya tsone e e ka tshwaraganngwang?
5. Ke sedirisiwa sefe sa 3D se se tla tlogelang go bereka fa se fetoga sebopego?

|    |         |                        |           |         |
|----|---------|------------------------|-----------|---------|
| 25 |         |                        |           |         |
| 20 |         |                        |           |         |
| 15 |         |                        |           |         |
| 10 |         |                        |           |         |
| 5  |         |                        |           |         |
|    | pampiri | kgetsana ya polasetiki | dibotlolo | dithini |

Jaanong dirisa kerafo e no go araba dipotso

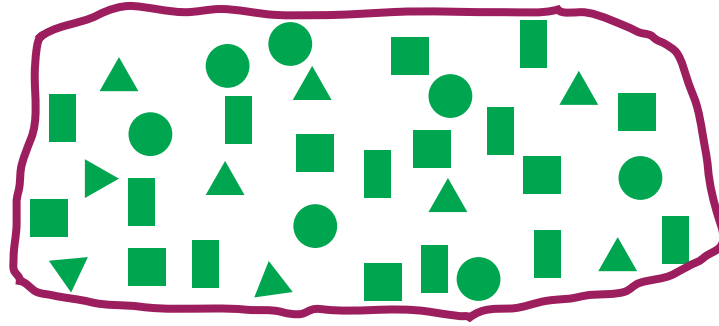


**Tirwana 3**

1. Ba ne ba phutha dikgetsi di le kae tsa polasetiki?
2. Palo e nnye thata ya dilwana tse di neng tsa phuthiwa e ne e le tsa mofuta ono.
3. Go ne ga phuthiwa dipampiri di le kae go feta tse di mo dithini?
4. Go ne ga phuthiwa dikgetsi di le kae tsa polasetiki fa di bapisiwa le ditene?
5. Fa e le gore dikgetsi tsa polasetiki di le I I di ne tsa foka, go ne ga sala di le kae?



## Tirwana



6. Kopa setshwantshokao seno o bo o tlatsa tshedimosetso e e mo setshwantshong se se fa godimo.
- a. Tsenya mmala o le 1 o tla supa popego nngwe le nngwe e e emelwang.
  - b. Ke popego efe e e bontshiwang thata mo setshwantshongkao seno?
  - c. Ke popego efe e e bontshiwang go le gonnye mo setshwantshongkao?
  - d. Go na le dikhutlotharo di le kae go na le dikgolokwe?
  - e. Ke tshwanetse go oketsa dikhutlonnetsepa (squares) tse kae gore di lekane le dikhutlonnetsepa (rectangles) tse nne?