



MOPHATO

1**BUKA YA
MORUTABANA**

Platinum

Dipalo

Platinum Dipalo Mophato wa 1 Buka ya Morutabana

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

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Fa o batla go rebolelwa tetla ya go ka gatisa lekgetlo le lengwe gape kgotsa go dirisa karolo nngwe le nngwe ya buka eno, o kopiwa gore o ikgolaganye le Setaledi tse se rebolelanang ka Ditshwanelo le Tetla mo go 021 532 6000 kgotsa ka go romela imeili mo go rightsgranting@mml.co.za. Go begela tshenyo ya ditshwanelo tsa mokwadi, tse di tswela romela imeili go copyright@mml.co.za.

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Mophasalatsi Thandi Kgosana
Morulaganyimogolo Khangela
E rulagantswe ke Christine de la Rega
Mothalo wa bokwantle ka MML Visual Design
Botaki jwa bokwantle ka MML Visual Design
Mothalo wa bukantle ka MML Visual Design
Botaki ka Benjamin Mthamizo; Pappas Khoza; Balikuddembe Joseph Bukenya
Thulaganyo ya mokwalo ka STRAIVE le Lizette Watkiss
E gatisitswe ka

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Morutabana yo o rategang

O amogetswe mo bukeng ya Dipalo ya Mophato 3 Kharikhulamo ya Dipalo ya Mophato wa 3 e rulagantswe ka dikgweditharo di le nne, nngwe le nngwe ya tsone e tsaya dibeke di le lesome Diilhogo di diretswe go thusa barutwana go aga kitso, bokgoni, le dikgopolo go itshwarelela sentle mo Mophato wa 3 DiDikarabo di tlhamilwe go tsamaisana le ditlhokego le dikgatlhego tsa barutwana ba gago

Letsatsi le lengwe le le lengwe fa o tsena mo phaposiborutelong jwa gago, ga o tsene fela mo lefelong le tletseng di deseke le dibuka. O tsena mo lefelong leo go bopiwang isagwe ya batho gone le mo go tlogang maitemogelo a masha. O na le matla a a seng kana ka sepe a go tlhotlheletsa, go kaela le go tlogotsna baeteledipele ba rona ba kamoso, bathami le badiradiphetogo ba rona. Fa o dira seno ka leeto, ja e kina e nna kgang fela ya go ruta, o tla bo o jala dipeo tsa bopelonomi, bopelokgale, go tlotla batho le mo go tlogotsa buntu mo dipelong tsa bana bano.

Re a itse gore ga se ka metlha go leng bonolo. Dikgwetlho tsa go nna morutabana, se se lobogolo kwa dikolong tse di senang ditirelo tse di lekaneng, ka dinako tse dingwe di ka dira gore o ikutlweng se se keisega maikutlo. Le fa go ntse jalo, kgwetlho nngwe le nngwe e o lebanang le yona e go naya tshono ya go tlogotsa pharologanyo ya mmatota. O bontsha barutwana ba gago gore ba ka kgona go dira sengwe le sengwe le go tlogotsa go solofetswe gore ba kgone go fitlhelela dilo tse dikgolo mo botshelong.

Ke gone ka moo mokgwa wa rona wa go ruta o tlileng go go thusa. E re re o tlhamile re akantse ka CAPS, re tlile go tlhoma mogopolo mo go ruteng ka tsela e e akantsang bana botlhe le go dira gore ngwana mongwe le mongwe a ikutlwe e le karolo ya se go buiwang ka sona. Di tlogantsho, dikgang le dithuto tse di tla bong di sekasekiwa di tlile go akaretsa maemo otlhe a rona a farologaneng, mme seno se tla thusa morutwana mongwe le mongwe gore a ikutlwe e le karolo ya se se dirang mo phaposiborutelong.

Ga re a go lebala. Boitekanelo jwa gago bo tlhokwa go tlogotsa fela jaaka re lebeletse gore barutwana ba gago ba atlege. Re akareleditse di dirisiwa tse o ka di dirisiwa tsa bowena gore o nne o tlhotlheletsegile ebile o itekanetse, ka gonne re a itse gore fa o ikutlwa se se barutwana ba gago le bone ba tla atlega. Fa o itumetse, seno ga se tlhotlheletse fela tsela e o rutang ka sona mme se aga kamano e e molemo le barutwana ba gago mme ba tla ikaega ka wena go bona tsholofelo go tlogotsa ditlholediwa mo botshelong.

Fa Aforika Borwa e tsweletse go dira gore Basic Education Law Amendments Act (BELA) e nne molao ka 2024, maitlhomong a rona a go dira gore pharologanyo ya thuto e nne e e lekalekaneng le e akantsang botlhe a gola le go feta. Seabe se o tlileng go nna le sona mo maitlhomong ano e tlile go nna se se segolo tota, mme go tlhologanya CAPS le BELA go tla dira gore phaposiborutelo ya gago e nne lefelo le mo go lona barutwana ba gago ba baakanyedivang go atlega. Ke wena yo o tlileng go thusa gore go nne le diphetogo tse di molemo mme seabe sa gago mo phaposiborutelong e tlile go nna se se segolo thata. Fa o ntse o ruta, itse gore ga o kaele barutwana ba gago fela; o bopiwang metse ya rona, naga ya rona le lefatshe la rona isagwe e e molemo.

Re lebogela sengwe le sengwe se o se dirang!

Molaetsa ka Bakwadi

O fano ka gonne o ineetse mo pitsong e e tlotlegang ya borutabana. Seabe sa gago se botlhokwa mo go bopengisago ya bana. Le fa gantsi tiro ya gago e sa fiwe serodumo se se rileng, e botlhokwa thata mo go tliseng phetogo mo lefatsheng. O tlhotlheletsa ditsamaiso tsa puso, o tlhotlheletsa baeteledipele ba dikakanyo, e bile o na le tshusumetso mo lkonoming ya isago. O puladikgoro ya botho, bopelonomi, le kutlwelobotlhoko mo kokomaneng e e latelang. Re lebogela seabe sa gago mo go ageng sešwa setšhaba sa rona sa lefatshe lotlhe; seabe le boleng teng jwa gago ke tlhoko.

Le fa go ntse jalo, borutabana bo na le go tla ka dikgwetlho tse di sulafatsang. Go go tshegetsa mo go seo, re tsenyeleditse didirisiwa tse o ka ithusang ka tsona gore o nne o ema malala a laotswe. Re batla go nna borutabana yo o itumetseng ka gore bokgoni ba gago, le botsalano jwa gago le barutwana, bo laolwe le botso go bo bontle ba gago.

Dikatlanegiso tse di fo tlase di dirilwe ke barutabana ba dipalo ba nnete lefatshe ka go pharisa ka lekile mefuta e e fetotseng diphaposiborutelo go nna mafelo ao ritibetseng a a siametseng go ruta barutwana.

Gololesega go dirisa se o tla bonang se tsamaelana le wena.

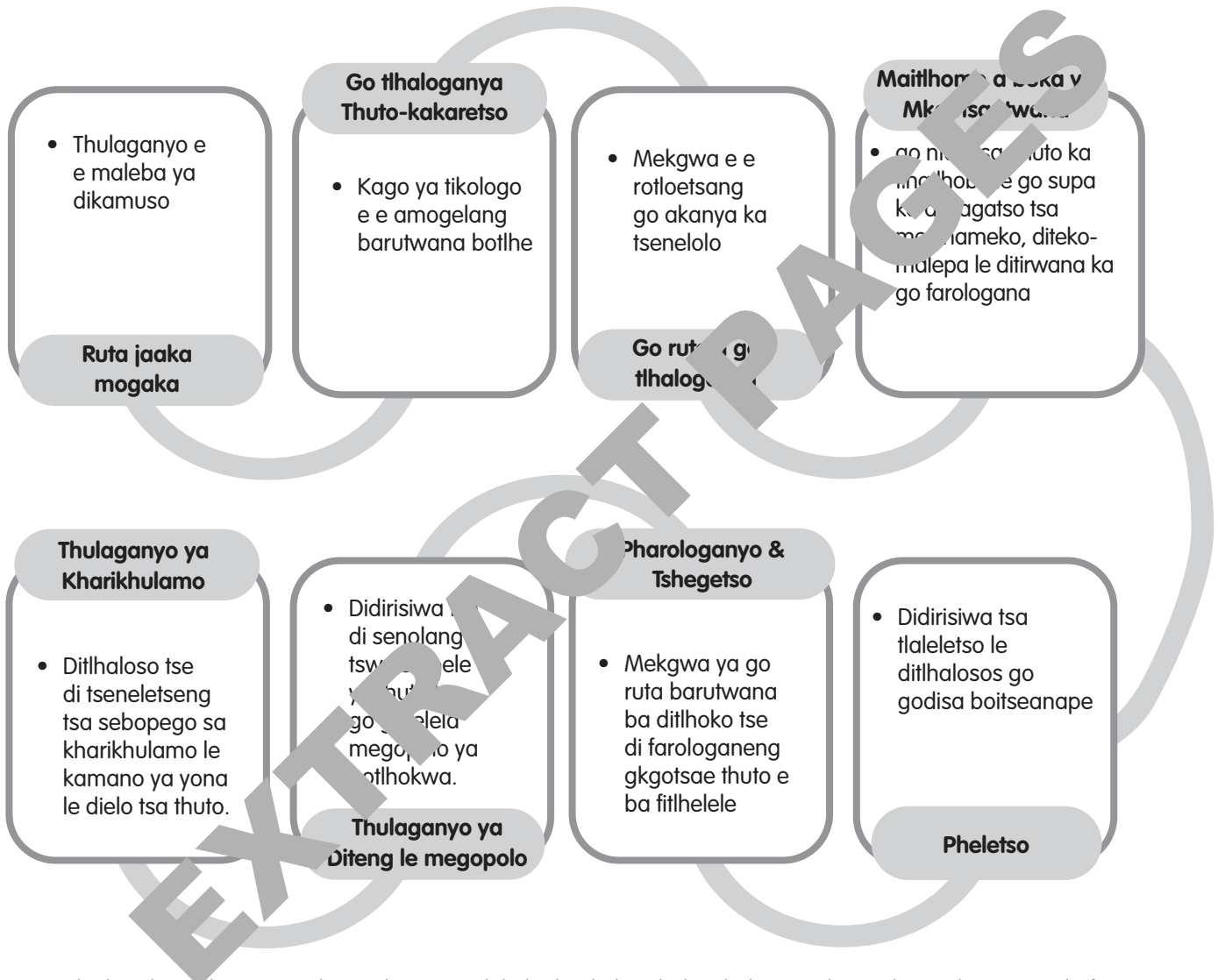
Ka ditebogo,

Bakwadi



Go dirisa dibuka tse ka bokgabane

O amogetswe mo kaeding ya barutabana ba mephato ya motheo, sedirisiwa sa bokgabane go supa tsela mo morutabaneng wa mephato 1, 2, le 3. Kaedi e, e agilwe go lebilwe loeto la gago la go ruta, go go fa lesedi la nnete le didirisiwa tse di tlaletsang mekgwa ya go ruta e e tla fatlhosang barutwana le go ba neela maitemogelo.



Ka jalo, kaedi e rotloetsa go akanya le go tselela ka kgolo le itshekatsheko, e rotloetsa barutabana go tokafatsa bokgoni jwa bona jwa go ruta ka tisanommogo. E gweilha barutabana go dirisa ditlha le didirisiwa tse di neetsweng go tokafatsa bokgoni jwa go ruta le go godisa maitemogelo a go ithuta a a matlafatsang barutwana go fatlhogana mo dithutong le mo botshelong.

Ruta jaaka Mogaka!



Go Tlathanya jaaka Sediensiwa sa Boitekanelo

Mo lefatsheng la rona le tsamayang ka bonako, mokgwa wa bogologolo wa go tlathanya o maleba go feta pele. Setšhaba sa gompiano se tlogela kwa go tlathanyeng jaaka botshabelo mo kgatelelong e e sa kgaotseng le mo go tshwarengeng go tshaloseng botshelo jwa segompiano.

Go tlathanya ka go tlogela kwa teng ke mokgwa o o bonolo le o o nang le matswela wa go laola boitshwara le go tokafala bakgoba tshaloganyo. Ka go tsepamisa mogopolo mo go hemeng ka bonya, ka boomo, wena le barutwana ba gago le ka ritibatsa megopolo ya lona le go fokotsa maemo a kgatelelo ya mogopolo. Mokgwa ono ga o lootse tšhoko fela mme gape o dira gore motho a ikutlwe a na le kagiso ya ka fa teng, a iketlile le go nna le botsogo jo bo siameng.

Tsela ya go Tlathanya

Simolola ka go batlela wena le barutwana ba gago lefelo le le siameng la go nna. Seno se ka nna mo ditlong tsa lona kgotsa mo ditshingwaneng tsa sekolo.

Simolola ka go hema ka tsela e e bonolo: hemela kwa teng ka nko go bala metsotswana e le mene, mme morago ga moo o hemele ntle ka iketlo ka molomo go fitlha go metsotswana e le robedi.

Ka iketlo dira gore go hemela ntle le go hemela teng gongwe le gongwe go nne bonya, go dira gore mmele o repe ka botlalo.

Go tshameka mmimo o o ritibetseng kwa morago go ka tokafatsa maitemogelo, ga dira gore go nne le kagiso.

Metsotso e le metlhano go ya go e le lesome fela ya mokgwa ono e ka go lapolosa, ya go naya tlhaloganyo e e tlhapileng le go ritibala mo go ka nnang ga tswela letsatsi lotlhe.

Go dirisa mmimo go tokafatsa go ithuta

O ka dirisa dipina le diraeme go ruta dikgopolo tsa dipalo ka go kopanya moribo le molodi mo ditlhakong tsa gago. Se se ka thusa baithuti go dira gore dikakanyo tse di sa tlhaloganyesegeng di nne le bokao ka go dirisa gore di se ka tsa lebalwa. Sekao, go tlhama pina e e tshwaregang ya go bala tatelano go ka dira gore di tlopetse tse di nne bonolo gore baithuti ba ba botlana ba di tlhaloganye le go di gakologelwa. Diraeme gape a ka thusa baithuti go tlhaloganya dipaterone tsa dipalo ka puo e e boaboelediwang, e e ngokang.

Go tlhaloganya Boakaretsi mo Thutong

Go akaretsa mo thutong go ikaelela go tlhama maemo a mo go onafanong mo mekgwe le mongwe a ikutlwang a le botlhokwa, a tlotliwa, le go engwa nokeng:

Mefuta ya kakaretso le mekgwa ya go e dirisa (2 metsotso)

Go Akaretsa Setso: Tlotla le go akaretsa dipono tse di farologaneng tsa setso mo kharikhulamong le mo mekgweng ya mo phaposing.

Go Akaretsa Loago: Go rotloetsa tirisano tse di siameng tsa loago le dikamano tsa balekane mo baithuting ba ba tswang mo maemong a a farologaneng.

Phithhelelo Go akaretsa: Go netefatsa phithhelelo ya mmele le ya dijithale ya dibebofatsi, didirisiwa, le didirisiwa tsa go ithuta tsa baithuti ba ba nang le puo e e tswang.

Go Akaretsa Puo: Tshegetsang mananeo a ba nang le maitshetlego a puo a a farologaneng ka thuto ya dipuo tse pedi kgotsa mananeo a tshegetso a puo.

Togamaano a go Tseno Tirisong

Tlhabololo ya Porofesora: Go tlamela ka katiso go barutabana ka ga mekgwa ya go ruta e e akaretsang le go lemoga ditlhalogano tse di farologaneng tsa baithuti.

Tirisanommogo e Phelelame tsa Kemonokeng: Tlhome tirisano mmogo le malapa, baagi, le ditirelo tsa tshegetsang go samagana le kemonokego tsa baithuti ka nonofo.

Tlhabololo ya Pholisi le Kharikhulamo: Go kopanya melawana ya thuto e e akaretsang botlhe mo dipholiseng tsa sekolo le matlhomeso a kharikhulamo go rotloetsa setso sa go akaretsa botlhe.

Tlathhobo e e Tsweleng: Tlathhoba le go baakanya ditogamaano ka metlha go netefatsa go akaretsa le tekatekano mo dipoelong tsa thuto tsa baithuti botlhe.

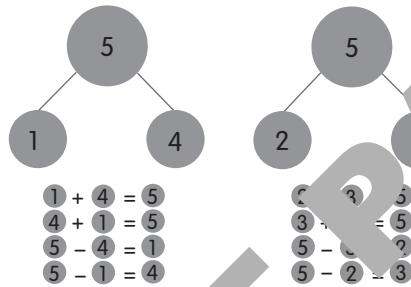
Buka ya moithuti e itsisiwe ka go anela kgang go Itsise kgopolo e e tlhokang go akarediwa. Sekao, bolela kgang ka ga ditlhopho tse pedi tsa diphologolo tse di kopanang go bopa setlhopho se segolo.

Sekao sa kgang: "Mo sekgweng, go na le digwagwa di le 3 mme digwagwa tse dingwe di le 2 di kopana le tsone. Go na le digwagwa di le kae jaanong?"

Tiro ya go Bona le ya go Dira (Metsotso e le 15):

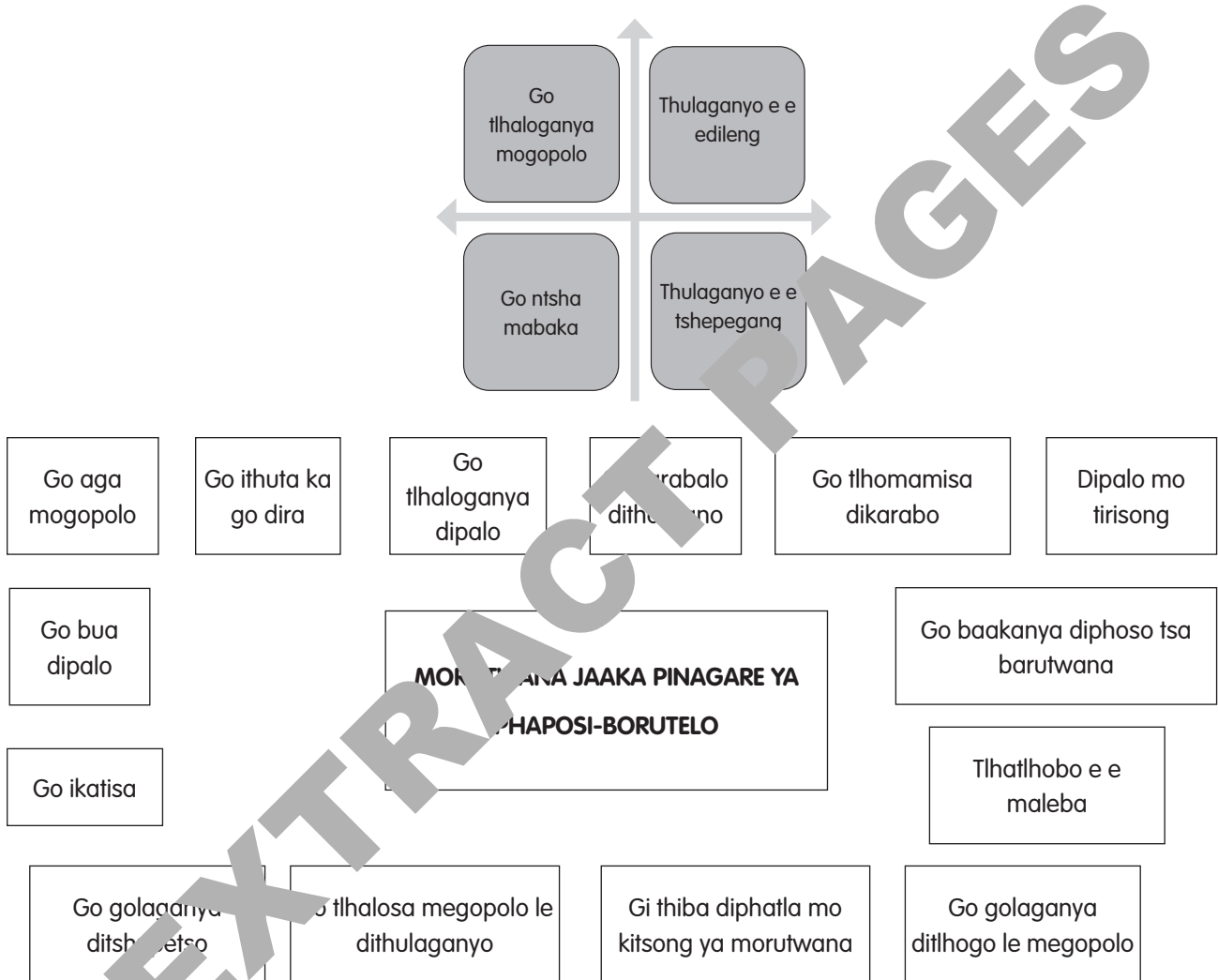
Dirisa Didirisiwa:

Dira gore barutwana ba dirise didirisiwa tsa go tlhotlheletsa go bontsha $3 + 2$. Ba ka kgona go kgoboka ya diboloko le go bala go bona gore ke di le kae ka kakaretso.



Go ruta Dipalo gore di tthaloganngwe

Go tthaloganya go akaretsa bokgoni jwa go akanya ka kelotlhoko le go inaakanya ka katlego mabapi le setlhogo kgotsa kgopolo. Ga go kokoanye fela tshedimosetso, dintlha kgotsa tshedimosetso, mme go feta bokgoni jwa go latela dikgato tsa tsamaiso ka motšhini. Mo dipalong, go tthaloganya go bonagala fa baithuti ba kgona go bulela boammaaruri jwa polelo kgotsa karabo ya dipalo le go tthalosa mabaka a a ka fa morago ga molao wa dipalo (CCSSO, 2010). Setshwantsho se se fa tlase se bontsha sekao sa Letlhomeso la go ruta le go ithuta dipalo, se tthomolola dintlha di le nne tsa konokono tsa bokgoni jwa dipalo:



Go Tthaloganya megopolo: Go tthaloganya megopolo, diopereshene le dikgolagano tsa dipalo.

Thulaganyo e e Edileng: Go diragatsa dithulaganyo tsa dipalo sentle, ka nako, le ka phuthologo.

Thulaganyo e e Tshepegang: Go aga, go emela, le go rarabolola ditharaano tsa dipalo.

Go Ntsha Mabaka: Go tthatlhanya, go tthalosa le go netefatsa ditsamaiso le ditharabololo tsa dipalo. Mekgwa e, e golagana sentle mo **phaposi-borutelo e morutabanae leng pinagare, go gatelela**

go ithuta ka go dira, go aga mogopolo, go rarabolola ditharaano le go tthaloganya dipalo.

Kgato ya motheo Dipalo Mephato 1–3

KABO YA NAKO

1.4.1 Kgato ya Motheo

a. Nako ya go ruta ya dirutwa tsa Kgato ya Motheo tse di kailweng mo lenaneong le le fa tlase:

SERUTWA	MOPHATO R (DIURA)	MEPHATO 1-2 (DIURA)	MEPHATO 3 (DIURA)
Puo ya Gae	10	7/8	7/8
Puo Tlaleletso ya Ntlha		2/3	3/4
Dipalo	7	7	
Dikgono tsa Botshelo	6	6	7
Kitso ya Tshimologo	(1)	(1)	14
Boithamedidi mo go tsa	(2)	(2)	7
Botsweretshi			
Thuto ya Ikatiso ya Mmele	(2)	(2)	(2)
Thuto ya boitekanelo jwa	(1)	(1)	(1)
motho le loago			
GOTLHE	23	23	25

b. Nako ya go ruta ya Mephato R, 1 le 2 ke diura di le 23 mme ya Mophato 3 ke diura di le 25.

c. Diura di le 10 mo dipuong di abetswe Mephato R-2 mme diura di le 11 ke tsa Mophato 2. Bogolo jwa diura di le 8 le bonnye jwa diura di le 7 di abetswe Puo ya Gae, bonnye jwa diura di le 2 le bogolo jwa diura di le 3 di abetswe Puotlaleletso mo mephatong R-2. Mo mephatong wa 3 bogolo jwa diura di le 8 le bonnye jwa diura di le 7 di abetswe Puo ya Gae fa bonnye jwa diura di le 4 le bogolo jwa diura di le 4 di abetswe Puotlaleletso ya Ntlha.

d. Mo serutweng sa Dikgono tsa Botshelo, Kitso ya Tshimologo e abetswe ura e le 1 mo mephatong ya R-2 le diura di le 2 jaaka go kailwe ka diura di le 1 masakaneng mo mephatong wa 3.

1.4.2 Kgato ya Magareng

a. Nako ya go ruta ya dirutwa tsa Kgato ya Magareng tse di kailweng mo lenaneong le le fa tlase:

SERUTWA	DIURA
Puo ya Gae	6
Puo Tlaleletso ya Ntlha	5
Dipalo	6
Disaense tsa Tlhago le Thekenoloji	3,5
Disaense tsa Loago	3
Dikgono tsa Botshelo	4
Boithamedidi mo go tsa Botsweretshi	(1,5)
Thuto ya Ikatiso ya Mmele	(1)
Thuto ya boitekanelo jwa motho le loago	(1,5)
GOTLHE	27,5

Metlobo ya didirisiwa tsa thuto

Kagego ya buka ya morutwana

Buka ya Moithuti e neelana ka ditšhono tse dintsi tsa go ikatisa ka ditiro ka nosi, tsa balekane, tsa setlhopha, le tsa phaposi, e tshegetsa bokgoni mo go ithuteng. Go ikatisa go botlhokwa mo tlhabololong ya bokgoni, mme buka e akaretsa metshameko e e ngokang le ditiro tse di itumedisang, e naya baiithuti ditsela tse dingwe tsa go tiisa tlhaloganyo ya bona. Ditiro tse ga di rotloetse fela tlhatlhobo e e tswelelang mme gape di tlhama maitemogelo a go ithuta a a monate le a boitlhamedi.

Dikgang =metsotso 10	Dikgang di a akarediwa go tokafatsa go boloka mogopolo le go tlhloganya tse go golaganya dikgopolo le diteng tse di amanang le go rotloetsa ntse le sebe ka kakanyo .
Tiro ya Boikemelo	Se se tlhabolola go ikgalemela le go akanya ka kelotlhoko , go madafatso baiithuti go nna beng ba thuto ya bona le go tlhabolola bokgoni jwa go rarabolola mathata.
Tiro ya Balekane le ya Setlhopha = metsotso 20	Ditiro tsa tisanommogo di rotloetsa tlhaeletsano ya dirisa go ka setlhopha , le bokgoni jwa go tlhloganya dipono tse di farologaneng tsa di ntse di rotloetsa bokgoni jwa laogo.
Ditiro tsa Phaposi yotlhe	DiDikarabo tse di rotloetsa maikutlo a boikemelo le go ithuta mmogo, go rotloetsa baiithuti go abelana maitemogelo le go tsamaisa karolo ka matlhagatlhaga mo dipuisanong.
Mafoko a Mašwa = metsotso 20	Ntlha e e tlhalosa tlotlofoko e nna wa ka tsela e e tlhapileng le e e fitlhelesegang, e thusa barutwana go tlhloganya tse go gakologelwa bokao jwa mafoko.
Teko ya Bokhutlo jwa Kotara	Dipotso tseno di kopanya barutwana tsa dintsi, di tlhoka gore baiithuti ba dirise kitso ya bona mo ditlhogong tse di farologaneng. Mkgwa o o dirisa dipotso tse di samaganang le maemo a a farologaneng a go raraana go thusa go sekaseka go tlhloganya le go boloka ga baiithuti ka kakanyo.
Nako ya go Batlisisa	Ntlha e ya go ithuta e naya baiithuti tshedimosetso e ntsi e e tlhotlheletsang le e e rutang, mme go kopotso tse di tsosang dikakanyo tse di ikaeletseng go rotloetsa go batlisisa le go rarabolola mathata ka boitshimoleledi.
DiDikarabo = metsotso 24	Ka dipotso tse di dirisiwang, ditiro tse di tlhotlheletsa boitlhamedi le boitshimoleledi , e naya baiithuti go dirisa kitso ya tiori mo ditiragalo tsa nnete le go tlhabolola kakanyo e e tsholeletseng.

Thulaganyo ya buya ya morutabana ya dipalo

Diteng di diretswe go simolola ka bokgoni jwa motheo jo bo jaaka go bala le boleng jwa lefelo, go tlhagisiwa ga dikgopolo tse di raraaneng ka iketlo jaaka dipalophatlo, dipaterone, le go tshwara tshedimosetso.

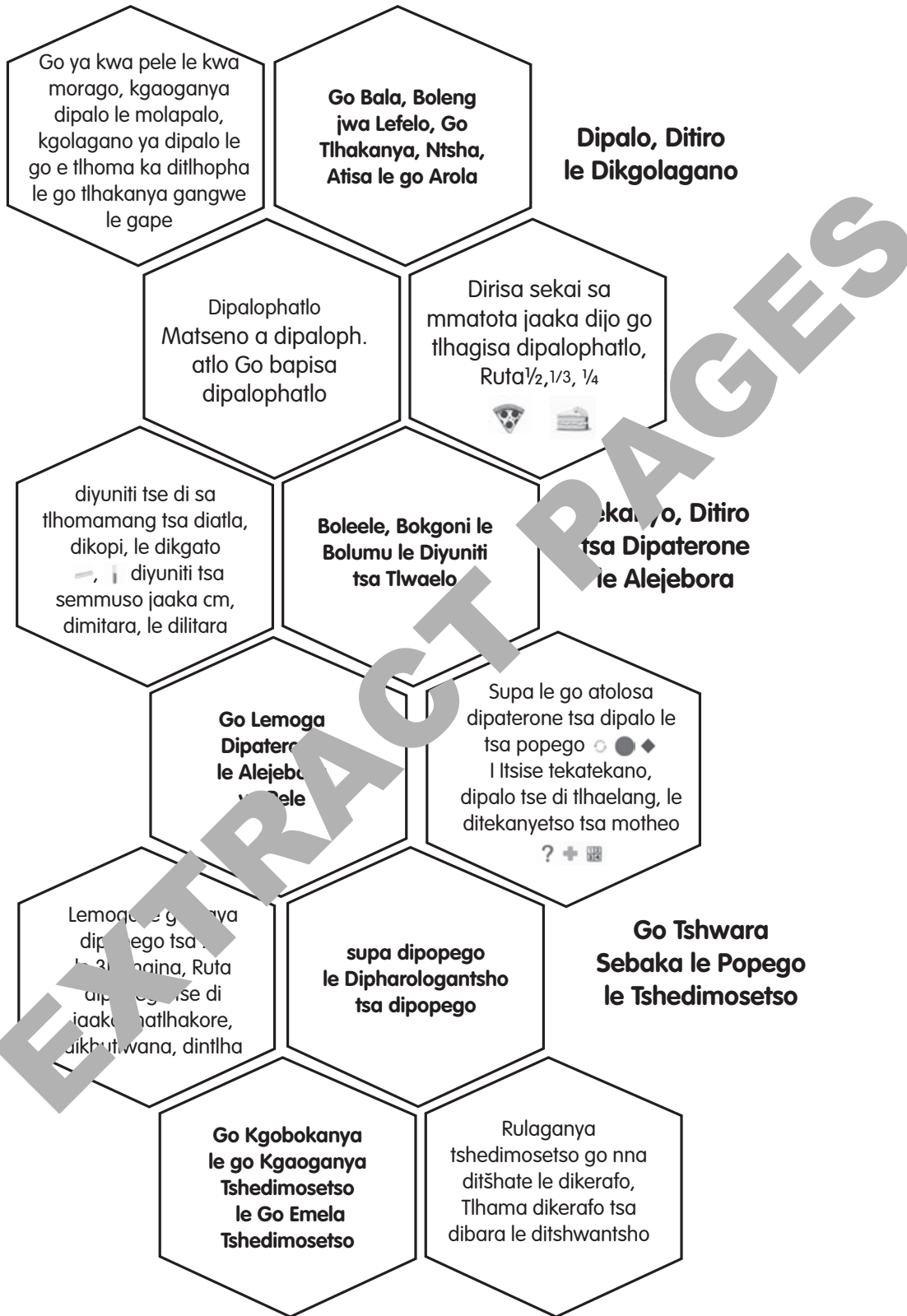
Ditlhogo di kopanngwa ka iketlo: Ditiro tsa dipalo di thaya motheo wa go tlhaloganya dipalophatlo, dipaterone di isa kwa tshimologong mo go akanyeng ga ditiragatso,, go lekanya go tlhagisa dikgopolo tse di amanang le bogolo le bontsi, le go tshwara tshedimosetso go aga mo bokgoning jwa go bapisa dipalo le go dira dikerafo.

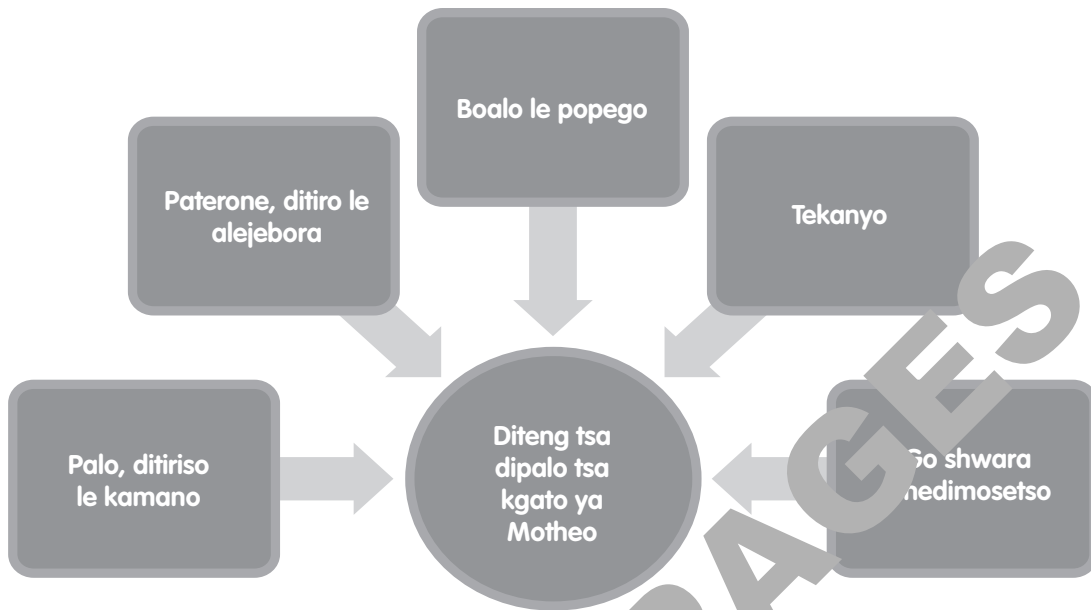
Popego e e tswelatang e e netefatsang gore kgopolo nngwe le nngwe e tiisa le go baakanyetsa baihutlwa e e latelang, e tlhama maitemogelo a go ithuta a a lomaganeng le a a kokoanyang.

Kelelo le kopanyo:

- Ditlhogo tsa ATP di rulagantswe go simolola ka dikgono jwa motheo (jaaka go bala le boleng jwa lefelo) mme ka iketlo di tlhagise dikgopolo tse di raraaneng (jaaka dipalophatlo, dipaterone, le go tshwara tshedimosetso).
- Setlhogo sengwe le sengwe se kopanngwa le dikarolo tsa go ithuta tse di tshwanetseng: Ditiro tsa dipalo di tlhoma motheo wa go tlhaloganya dipalophatlo, dipaterone di isa kwa tshimologong mo go akanya ka alejebora, go lekanya go tokafatsa kitso ya dilekanyo le bontsi, le go tshwara tshedimosetso go akaretsa bokgoni jwa go bapisa le jwa go emela ka dikerafo.
- Ka jalo lereo diteng le agiwa ka mokgwa o o tswelatang pele, o o kopantsweng, go netefatsa gore kgopolo nngwe le nngwe e tiisa le go baakanyetsa baihutlwa e e latelang.
- Teko ya bokhutlo jwa kotara e tshwantsha mokawa o o kopantsweng o ka go akaretsa ditlhogo di le mmalwa mo teng ga dipotso. Mokgwa o o letla baihutlwa go dirisa kiiso ya bona go ralala dikarolo tse di farologaneng, ka dipotso tse di farologaneng ka bothata go tlogela maemo a a farologaneng a bokgoni le go tiisa tlhaloganyo.







Maikaelelo a thuto go ya ka diteng tsa serutiso.

Dipalo, Ditiragatso le dikgolagano	Dipaterone, ditiro le alejebora
<p>Mo legatong le, kgopolo ya dipalo ya baithuti e tshwana ka go dira le dilo tse di bonalang go bala dikakanyo tsa dilo, go kgaoganya le go kopanya dipalo, go tlogela bala ka ditsela tse di farologaneng, go rarabola mathata a bokao (lefoko), le go aga le go thuba dipalo.</p> <p>Go bala go kgontsha baithuti go kopola dikgolopolo tsa dipalo, dipalo tsa tlhaloganyo tsa matshwao, bokgoni jwa go bala le go lemoga dipaterone.</p> <p>Tlhabololo ya kgopolo ya dipalo e tshwana le baithuti go ithuta ka ga dipharologantsho tsa dipalo le go tlhama maano a a ka dirang gore a tlelele di nne bonolo.</p> <p>Go rarabolola mathata a bokao go kgontsha baithuti go tlhalela ka dikakanyo tsa bona ka molomo le ka go kwadisa ditshwantsho le matshwao.</p>	<p>Mo legatong le, barutwana ba dira ka bobedi dipaterone tsa dipalo (go tlola go bala); le dipaterone tsa jometeri (ditshwantsho).</p> <p>Barutwana ba tshwanetse go dirisa dilo tse di bonwang, ditshwantsho le dipopego tsa matshwao go kopolola, go atolosa, go tlhalosa le go tlhama dipaterone.</p> <p>Go kopolola paterone go thusa barutwana go bona tlhaloganyo ya gore paterone e dirilwe jang. Go atolosa paterone go thusa barutwana go tlhola gore a ba tlhalogantse sentle paterone.</p>

<p>Palo, Tiro le Dikamano</p> <p>Baithuti ba aga tlhaloganyo ya ditiro tsa motheo tsa go tlhakanya, go ntsha, go atisa le go arola.</p> <p>Baithuti ba tlhama dikgopolo tsa dipalophatlo ka go rarabolola mathata a a akaretsang go abelana dilekanyo tsa sebopego le ka go dirisa ditshwantsho. Mathata a tshwanetse go akaretsa diharabololo tse di felelang ka palo e e feletseng ya masalela kgotsa dipalophatlo. Go abelana ga go a tshwanela go akaretsa fela go batla dikarolo tsa botlhe, mme gape le go batla dikarolo tsa dikokoanyo tsa dilo. Mo kगतong e, barutwana ga ba solofelwe go buisa kgotsa go kwala matshwao a dipalophatlo.</p>	<p>Dipaterone, ditiro le alejebora</p> <p>Go tlhalosa paterone go thusa barutwana go godisa bokgoni jwa bona jwa puo. Go tlhoma mogopolo mo tlhaloganyong ya dipaterone go thaya motheo wa go nna le bokgoni jwa go akanya ka alejebora.</p> <p>Dipaterone tsa dipalo di tshetsetsa tlhabololo ya kgopolo ya dipalo le tlhaloganyo ya tiriso e e agilweng mo Dipalong, Ditiro le Dikamano.</p> <p>Dipaterone tsa jometeri di akaretsa tsa mela, dipopego le dilo mme gape le dipaterone mo lefatsheng.</p>
<p>Sebaka le Popego (Jometeri)</p> <p>Mo legatong le barutwana ba tsepamisa megopolo mo dilong tsa tlhakore-tharo (3-D), dipopego tsa tlhakore-pedi (2-D), maemo le ditaelo.</p> <p>Baithuti ba sekaseka dipharologantsho tsa dilo tsa 3-D le dipopego tsa 2-D ka go di tlhopha, go di tlhaola, go di tlhalosa le go di naya maina.</p> <p>Barutwana ba thala dipopego le go aga ka dilo.</p> <p>Baithuti ba lemoga le go tlhalosa dipopego le dilo tse di mo tikologong ya bona tse di tshwanang le dilo le dipopego tsa dipalo.</p> <p>Barutwana ba tlhalosa maemo a dilo, bona le ba bapisa go ba dirisa tlotlofoko e e maleba.</p>	<p>Tekanyo</p> <p>Mo legatong le kgopolo ya bontsi ya tekanyetso e tlhamiwa ka go dira kirisano le dilo le dipopego tse di farologaneng tse di akaretsang, go ithuta dipharologantsho tsa molele, bokgoni, bokete, kgaolo le nako. Baithuti ba akanya dipharologantsho tsa dipopego go ba dirisa diyuniti tse di sa tlhomamang fa go tshwantseng, jaaka diatla, dikgato, ditshodi.</p> <p>Barutwana ba bapisa dilekanyo tse di farologaneng ka go dirisa mafoko a a bapisiwang jaaka moleele/ botshwane, bokete/botlhofo.</p>
<p>Tshwanetse go tshedimosetso</p>	
<p>Mo legatong le, barutwana ba dira ka:</p> <p>Go tlhopha, go emela le go tlhalosa tlhophanyo e tlhophilweng ke bokgoni jo bo mosola jo barutwana ba tshwanetseng go bo tlhabolola go malelele mo sekolong. Thulaganyo e gape e tlhabolola bokgoni jo baithuti ba tla bo dirisang fa ba dira modikologo go tshwara tshedimosetso.</p> <p>Barutwana ba ka fiwa dikokoanyo tsa dilo mme ba kopiwe go di tlhomaganya. Sekao, neela ditlhopha tsa mefuta e e tshwanang ya dibadimo mme kope morutwana go di tlhaola ka mebala, neela dikokoanyo tsa mefuta e e farologaneng ya dibadimo jaaka dipeke tsa borotho, dithapo tsa perekisi, mokgwaro, dikhurumelo tsa mabotlolo mme o kope barutwana go di tlhaola ka ditlhopha.</p>	

BOLENG JWA DITENG TSA SERUTWA			
Diteng tsa Serutwa	Mophato 1	Mophato 2	Mophato 3
Dipalo, diopereishene le dikgolagano*	65 %	60 %	58 %
Dipaterone, tiriso le Alejebora	10 %	10 %	10 %
Popego le boalo (Jeometeri)	11 %	13 %	13 %
Go lekanya	9 %	12 %	14 %
Go dira ka dipalo tsa tshedimosetso	5 %	5 %	5 %
	100 %	100 %	100 %

*Go botlhokwa gore tsepamo e nne mo dipalong, diopereishene le botsalano mo mophatong wa R. Letlelela barutwana go fetsa mo kगतong ya motheo ba tshwanetse gore ba bo ba tlhomame go tlhaloganya bokao jwa dipalo le go Motlotlo ka diopereishene. Maikaelelo ka gore barutwana ban ne le bokgoni le go itshepa fa ba dira dipalo le go tlhakanya. Ka lebaka le, nako e e abetsweng dipalo, diopereishene le botsalano e okeditswe. Tiro ka bontsi e tshwanetse go tsepamedisiwa mo dipateroneng tsa dipalo go tiisa bokgoni jwa barutwana go dirisa dipalo

Lenaane 3.1: Kabo ya nako go ya ka diteng tsa beke

Diteng tsa serutwa	Dithogo	Nako e e tsitshintsweng
Dipalo, Matshwao le Dikgolagano	Go bala Temogo ya dipalo Supa le go tlhalosa dipalotlalo Kgopolopalo Go rarabolola dipalo	Metsotso e le 120
Dipaterone, Ditiriso le Alejebera	Kopolola, atolosa le go aga dipaterone tsa bone	Metsotso e le 80
Boalo le Popego (Jeometeri)	Lemoga, tlhopha le go neela maina a tekanyo ya popegopedi (2-D) le ditshwantsho Tekanyo ya popego Aga dipopego tekanyo ya tlhakoretharo (3-D) o dirisa didiriswa tse di kgonngwang. Dikamano tsa boalo Dikaelo	Metsotso e le 80
Tekanyo	Nako Boleele Boima Mothamo	Metsotso e le 80
Go dira ka dipalo tsa tshedimosetso	Kgobokanya, tlhaola, tshwantsha, balo, mela tshedimosetso	Metsotso e le 60
Palogotlhe		Metsotso e le 420 Diura di le 7 ka beke

Kabo ya diteng tsa serutwa le dithogo tsa dithuto tsa Mephatong 1 go ya go 3

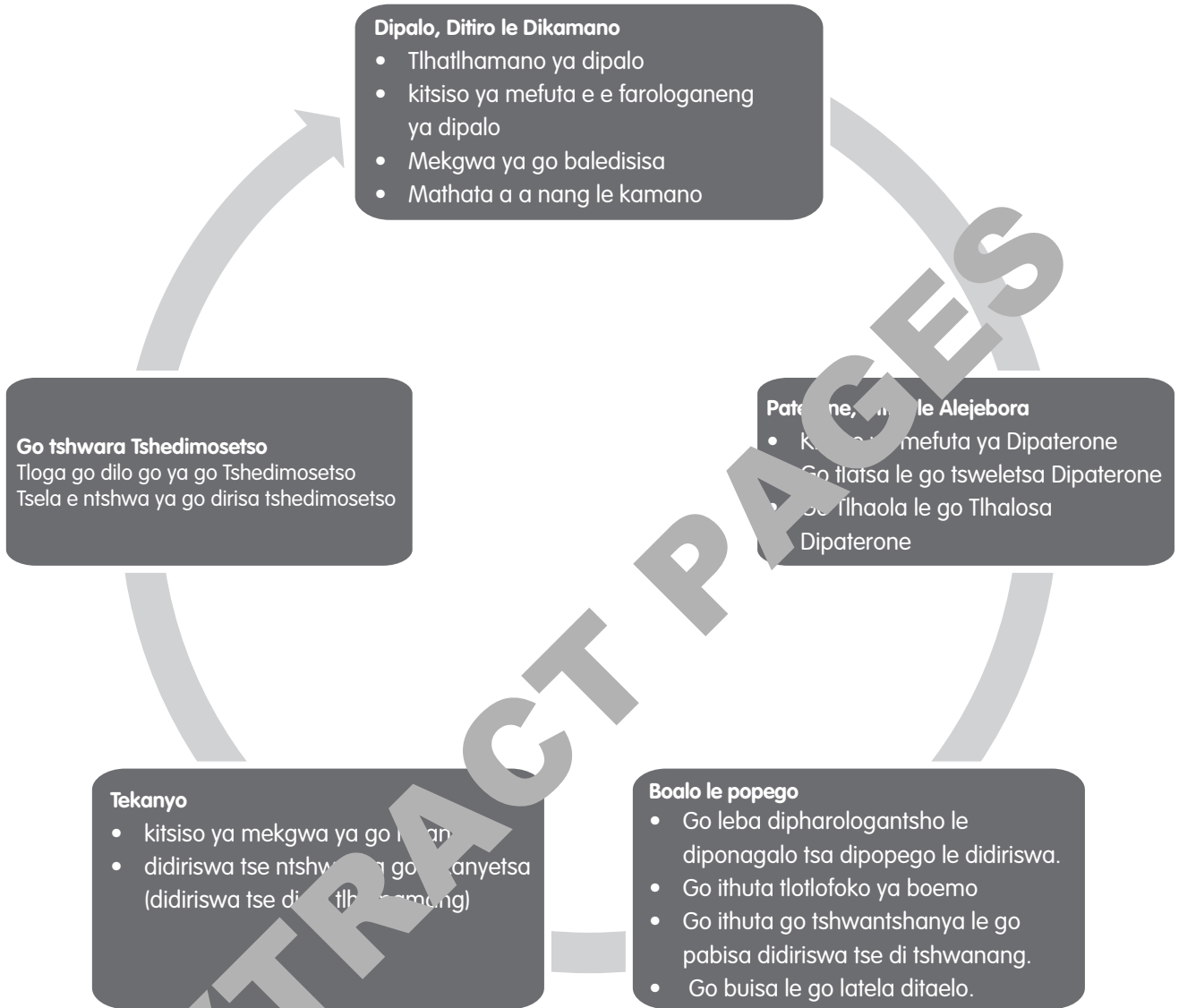
Palogare ya dithuto di le tharo mo bekeng (magareng ga diura di le 4 le 41) e dirisetswa go ruta Dipalo, Matshwao le Dikgolagano mo Mephatong 1, 2 le 3. Dithuto tse pedi tse di salang (ke gore tse di mo magareng ga diura di le 21 le 3) di kgaogangwe fa gare ga dithogo tsa dithuto tsa diteng tsa dirutwa go ya ka mokgwa o o tsitshintsweng fa tlase.

Tatelano le nako e e thaoletsweng diteng

Lenaneo 3.2: Palo ya dithuto tse di tsitshintsweng tsa diteng tsa serutwa tsa kgweditharo tsa Mophato 1

DITENG TSA SERUTWA	SETLHOGO	NOMERE YA DITHUTO				Gotlhe
		Kgwed-itharo 1	Kgwed-itharo 2	Kgwed-itharo 3	Kgwed-itharo 4	
Dipalo, matshwao le dikgolagano	Ditlhogo tsothe tsa Dipalo, matshwao le dikgolagano	22	30	28	25	105
Dipaterone mediro le Alejebera	Dipaterone tsa Dipalo	3	3	3	2	12
	Dipaterone tsa tekano	1	1	1	1	4
Boalo le popego (Tekano)	Tekatekanyo ya dipopegotlhakorepedi (2-D)		3			6
	Tekanyo ya popegotlhakoretharo (3-D)	3		2	1	6
	Maemo, kitsiso, le dikakanyo	2			1	3
	Tekatno			1	1	2
Tekano	Nako	2				2
	Boleele	2		2		4
	Boima	2			2	4
	Mothamo/bolumu		2		1	4
Go dira ka Dipalo tsa tshedimosetso	Kgobokanya, rulagano le go lokolola didiriswa	2	1			3
	Sediko sotlhe sa tshedimosetso			3		3
	Dikarolo tsa sechaba sa tshedimosetso				2	2
Palo yotlhe ya dithuto		40	40	40	40	160

Thulaganyo ya diteng le megopolo



Dikarabo Nomoro

Tsebe 6

Setlhogo sa Tiro ya "Thusa Zara go Boela Kwa Godimo"

Setlhogo seno se thusa go sekaseka bokgoni jwa baithuti jwa go bala ka tatelano, go lemoga dipalo tse di tlhangelang, le go nna le seabe ka matlhagatlhaga mo tirong.

Ditekanyetso	Kemo ya 1 (Dilo Tse di Tlhokegang go Tokafadiwa) (Selekanyo 1)	Seemo sa 2 (Go kgona) (Selekanyo 2)
Go Lemoga Dikgato Tse di Tlhaelang	Go thatafalelwa ke go lemoga kana go gakologelwa dikgato tse di tlhaelang (4; 7; 8). A ka tlhoka go kaelwa thata	O kgona go lemoga le go gakologelwa kana go tse di tlhaelang (4; 7; 8) a sa nne le seabe.
Tatelano ya go Bala ka Mafoko	O bala ka lentswe le le kwa godimo mme a ka nna a tlola dipalo, a di bua ka tatelano e e sa siamang, kgotsa a tlhoka go gakololwa.	O bala ka lentswe le le kwa godimo ka tatelano e e siamang ka tlatsa dikgato tse di tlhaelang ka bopelokgale.
Go Nna le Seabe le go Nna le Seabe	Ga a bontshe matlhagatlhaga gore a nna le seabe ka go bitsa dipalo ka bopelafalo le ka matlhagatlhaga. Ba ka nna ba tlhoka go kgothadiwa gore ba nne le seabe.	O nna le seabe ka go bitsa dipalo ka bopelafalo le ka matlhagatlhaga.
Bokgoni Jwa go Rarabolola Mathata	O tlhoka thuso go nna gore dikgato tse di tlhaelang ke di...	E kgona go lemoga dikgato tse di tlhaelang e bo e feleletsatsa tatelano ya tsone ka tsela e e tlhomameng.

Dikarabo 1 Nomoro 2

Tsebe 11

Setlhogo seno se thusa go sekaseka bokgoni jwa baithuti jwa go gakologelwa, go bitsa le go bua maina a dipalo ka bopelokgale fa ba ntse ba latela ka morutabana wa bone.

Ditekanyetso	Kemo 1 (Dikgokafalo tsa go Tokafatsa) (Selekanyo 1)	Seemo sa 2 (Go kgona) (Selekanyo 2)
Go Bitsa Maina a Dipalo	Ga a kgone go bitsa maina a dipalo (6-10) sentle kgotsa o tlola dipalo dingwe.	O bitsa maina a dipalo (6-10) ka tsela e e siameng le ka go latelana.
Tsela ya go Bala mafoko	O na le bothata jwa go bitsa dipalo dingwe sentle. O ka nna wa tlhoka go gakololwa.	O kgona go bitsa maina a dipalo ka tsela e e utlwalang sentle e bile a le bopelokgale.
Go Nna le Seabe le go Itshepa	O okaoka kgotsa o tlhoka go kgothadiwa gore a bue dipalo tsa gagwe kwa godimo.	O nna le seabe ka matlhagatlhaga e bile o bua dipalo ka bopelokgale.
Go Reetsa Morutisi le go Mo Latela	O tlhoka go gakololwa gangwe le gape kana go thusiwa gore a kgone go dira se morutabana a se buang.	O reetsa ka kelotlhoko e bile o latela kaelo ya morutabana ka bonako.



Dipalo · Mophato wa · Kgweditaro 1

+ (Go oketsa)

- (Go fokotsa)

Kgweditharo 1

Kgweditharo 1 : Go bona dilo tse di sa tlwaelegang mo lefatsheng la dipalo!

A re bone se o se itseng ke tlathobo ya motheo go sekaseka kitso ya pele ya baithuti ba Mophato ipaakanyetsa dikgopolo tsa botlhokwa tsa motheo.

Megopolo ya Botlhokwa:

- Bala dilo, di tlhophe, le go di nyalanya go ya ka dinonofo tsa tsone.
- Tlhalosa dikokoanyo fa di sena go tlhophiwa.
- Dirisa tlotlofoko e e jaaka go feta, go sekae, go le gogolo, le go le gonnye go bona dilo.
- Lemoga le go bua ka malatsi a beke ka go bolela gore gompiano ke eng, ka masego go tla nna eng, le gore maabane e ne e le eng.

A re bone se o se itseng

Tsebe 2

1. Go bala dilo ka botshepegi.	2. Go bala dilo ka botshepegi.
Karabo: 10	a. 7 b. 8
3. Go bala go ya pele	4. Tlhakanya
Karabo: 1; 2; 3; 4; 5; 6; 7; 8; 9; 10	a. Nne b. Pedi
5. Fokotsa	
a. 1 b. 3	
6. Go Latelanya Dikgopolo ka go Dirisa Dipotso tsa Puo	
a. Karabo e ikaegile ka tiro e dirilwe leng, ke gore, karabo ke letsatsi pele ga tiro e dirwa. b. Labone. c. Latshipi. d. Mosupulo.	

Go batlisisa dithakethake tsa dipalo

Go balela kwa pele le kwa morago

Maitlomo a Thuto:

Ikatsetse go balela kwa pele le kwa morago o dirisa Molapalo:

- Thala melapalo.
- Supa gore a go balwa go ya kwa pele kgotsa kwa morago.
- Kopolola le go tlatsa melapalo e e nang le dipalo tse di tlhaelang.
- Tlatsa dipalo tse di tlhaelang.

Matseno	
<ul style="list-style-type: none"> • Itsise kgopolo ya go balela kwa pele le kwa morago o dirisa Zara's Number Adventure. • Rotloetsa barutwana go leka go bala mmogo le 'Zara' fa o buisa kang. 	
<p>Sekai</p> <ul style="list-style-type: none"> • Dirisa setshwantsho sa mosimane mo molepalong a tlolela kwa pele go tswa go 1 go ya go 10 le mosetsana a tlolela kwa morago go tswa go 10 go ya go 1. • Lemoga fa tatelano e tsamaela kwa pele kgotsa kwa morago. <p>Tiisa tsela e e nepagetseng ya go bitsa dipalo mme o ikatsetse go matle a le go fologa.</p>	
Mafoko/Mareo a mašwa:	Didinotšhepo:
<ul style="list-style-type: none"> • Go bala ke go bua dipalo go bona gore go na le dilo di le kae. • Molapalo ke mola o o tlhamaletseng o o nang le dipalo mo go one. • Kwa pele go raya go tsamaela kwa sengweneng. • Go boela kwa morago go raya go katogela moka le sengwe. 	<ul style="list-style-type: none"> • dibadi. • Selo sengwe le sengwe se barutwana ba ka se dirisang go bala fa ba itsise setlhogo.
Ditaelo:	
<ul style="list-style-type: none"> • Itsise Zara's Number Adventure: Simolola ka go buisa kang ya ga Zara le setlhare sa gagwe sa maselamotse se se nang le dipalo, o tlhalela mofuta o Zara a balang kwa pele le kwa morago ka boitumelo. • Tshwaraganya Baithuti e Nang: Rotloetsa baithuti go latela maitemogelo a ga Zara, o gatelela go balela kwa pele le kwa morago go tswa go 1 go ya go 10 le mosetsana le setlhare sa maselamotse. • Pontsho ya Pono: Dirisa setshwantsho sa pono sa mosimane mo moleng wa dipalo a tlolela kwa pele go tswa go 1 go ya go 10, le mosetsana a tlolela kwa morago go tswa go 10 go ya go 1. • Supa Ditatelano: Kopa barutwana go supa fa tatelano e e mo setshwantshong e tsamaela kwa pele kgotsa kwa morago. • Ikatsetse go bitsa mafoko: Tiisa go bitsa dipalo ka tshwanelo ka go dira gore barutwana ba boeletse dipalo kwa godimo fa ba ntse ba balela kwa pele le kwa morago. • Ikatsetse go Tlhatloga le go Fologela: Dira gore barutwana ba ikatise ka bobedi tatelano ya go tlhatloga (go balela kwa pele) le ya go fologela (go balela kwa morago) ka melapalo kgotsa didirisiwa tse dingwe tsa go bala. 	
Dikeletso tsa go Ruta:	
<ul style="list-style-type: none"> • Tsenya Baithuti: Dira gore thuto e nne le tirisano ka go rotloetsa baithuti go balela kwa godimo ka Zara le go tsaya karolo mo diirong tsa molapalo. • Tiro ya Dipara: Barutwana ba ikatise go bala mmogo, se se ba letlang go bapisa dipholo tsa bona le go tshegetsana mo go tlhaoleng tatelano. • Tihola Kutlwisiso: Boeletsa barutwana go supa kutlwisiso ya bona ka go supa gore a tatelano e e neetsweng e tsamaela kwa pele kgotsa kwa morago. • Go nonotsha: Dirisa dihusapono tsa tlaleletso kgotsa mela ya dipalo fa go tlhokega go thusa go nonotsha kgopolo ya go balela kwa pele le kwa morago. 	

Dikarabo		Tsebe 5, 6, 7
<p>Dikarabo 1:</p> <p>1. a. 1; 2; 3; 4; 5; 6; 7 b. 3; 4; 5; 6; 7; 8; 9; 10</p> <p>2. a. 6; 5; 4; 3; 2 b. 9; 8; 7; 6</p> <p>3. 8; 7; 5</p> <p>4. Barutwana ba nne le melapalo e e bontshitshweng a. 1; 2; 3; 4; 5 b. 4; 5; 6; 7; 8 c. 7; 6; 5; 4; 3; 2</p> <p>5. a. Go ya pele b. Go ya morago c. Go ya pele d. Go ya morago</p>	Tsebe 5	<p>6. Ga go tlhokege gore barutwana ba bontshe melapalo a. 1; 2; 3; 4; 5; 6; 7; 8; 9; 10 b. 1; 2; 3; 4; 5; 6; 7; 8; 9; 10 c. 1; 2; 3; 4; 5; 6; 7; 8; 9; 10</p> <p>7. a. 1; 2; 3; 4; 5; 6 b. 10; 9; 8; 7; 6; 5; 4; 3; 2; 1 c. 1; 2; 3; 4; 5; 6</p> <p>Dikarabo 2:</p> <p>1. 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19</p> <p>2. 20; 19; 18; 17; 16; 15; 14; 13; 12; 11; 10; 9; 8</p> <p>3. 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20</p> <p>4. 17; 16; 15; 14; 13; 12; 11; 10; 9; 8</p> <p>5. a. C. 10 b. A</p>
		Tsebe 8

EXTRACT PAGES

Tlaleletso ka go balela kwa pele le kwa morago

Maitlthomo a Thuto:

- Lemoga, tlhaola, buisa matshwao a dipalo go tswa go 1-20.
- Kwala matshwao a dipalo le maina a dipalo go fitlha go 10.
- Go bala dilo ka tsela e e ikanyegang.

Matseno	
<ul style="list-style-type: none"> • Itsise kgopolo ya go tlhakanya ka go balela kwa pele le kwa morago, le maina a dipalo go fitlha go 10 o dirisa kgang ya ga Khaya le ditsala tsa gagwe, Dipalo. Khaya o itsise ditsala tsa gagwe tsa dipalo nngwe le mongwe a bua leina la gagwe: "Dumela, ke nna Zero," jalo le jalo go fitlha go Lesome. • Rotloetsa barutwana go ikitsise go 'Dipalo', morago ga gore palo nngwe le nngwe e itsise. 	
<p>Sekai</p> <ul style="list-style-type: none"> • Barutwana ba nyalanya matshwao a dipalo le palo e e nepagetseng ya dilo tse di tshwanetse go balela go tse ka pono go tiisa go tlhologanya dipalo le go bala. • Letshwao lengwe le lengwe la palo (sekao, 5; 6; 7) le kopangwa le setlhopho sa tsamaelanang sa dilo. • Sekao se se thusa baithuti go golaganya matshwao a dipalo a a sa tlhaganele go nepagetseng le dilekanyo tse di bonalang, go thusa mo go lemogeng dipalo le go bala ka nepagalo. 	
Mafoko/Mareo a mašwa:	Didirisi:
<ul style="list-style-type: none"> • Ga go na mafoko a masha a a tlhagisitsweng 	<ul style="list-style-type: none"> • Dilo tse di tshwanetse go balela • Selo sa gagwe le sengwe se barutwana ba ka se dirisang go bala fa ba itsise setlhogo.
Ditaelo:	
<ol style="list-style-type: none"> 1. Itsise Maitemogelo a Dipalo tsa ga Khaya: Setaola ka go buisa kgang ya ga Khaya le ditsala tsa gagwe, Dipalo, fa Khaya a itsiseng palo nngwe le nngwe go tswa go Lefela go ya go Lesome. 2. Tshwaraganya Baithuti le Kgang: Rotloetsa barutwana go reetsa le go tsiboga fa palo nngwe le nngwe e ikitsise. Dira gore ba boeletse maina a dipalo kwa godimo go itlwaetsa tatelano ya tsone. 3. Tiro ya go Tshwantsha: Tlhagisa pono e nngwe le matshwao a dipalo le ditlhopho tse di tsamaelanang tsa dilo. Dira gore barutwana ba nyalanya matshwao lengwe le lengwe la palo (Sekai, 5; 6; 7) le setlhopho se se nepagetseng sa dilo tse di tshwanetse go balela. 4. Ikatisetse Temogo ya palo: Dira ka go kopa barutwana ho tlhwaya le go bala dilo tse nyalanang le letshwao lengwe le lengwe la palo. 	
Dikarabo 1:	Dikarabo 2:
<p>Tsebe 11</p> <ol style="list-style-type: none"> 1. Tlatsa Maina a Dipalo: Tlatsa ditlhaka tse di tlhalelang tsa maina a dipalo a a latelang: <ul style="list-style-type: none"> 6 – Thataro 7 – Seta 8 – Maitlthomo 9 – Robo 10 – Lesome 2. Buisetsa dipalo kwa godimo le barutwana. 	<p>Tsebe 12</p> <ol style="list-style-type: none"> 1. Bala dilo tse di fa tlase mme o kwale letshwao la palo <ul style="list-style-type: none"> a. 15 b. 19 c. 12 d. 16 2. Thala selo sa gago mme o kwale letshwao la palo. Karabo ya moithuti e tshwanetse go utlwala le go bontsha maemo a mangwe a go tlhologanya. 3. Bapisa ditshwantsho tsa gago le tsa ditsala tsa gago. Karabo ya moithuti e tshwanetse go utlwala le go bontsha maemo a mangwe a go tlhologanya.

Tsereganyo/tiro e e atolositsweng:

- **Tiriso ya Tlathhobo:** Akaretsa ditiro tsa tlathhobo tse di jaaka, "Dira gore barutwana ba supe le go kwala matshwao a dipalo a a tsamaelanang le ditlhopha tse di farologaneng tsa dilo. Sekai, tlhagisa setlhopha sa diapole di le 7 mme o kope barutwana go kwala letshwao la dipalo le le tsamaelanang."
- **Tiro ya Setlhopha/Dipara:** Rulaganya barutwana ka bobedi kgotsa ka ditlhopha tse dinnye go wetsa diDikarabo tsa go nyalanya. Sekai, "Kopanya barutwana go dira mmogo mo motshamekong wa go tshwantshanya mo moithuti a le mongwe a tsholetsang letshwao la palo mme yo mongwe a le tshwantshanya le setlhopha se se siameng sa dilo. Morago ga moo ba ka fetola dikarolo."
- **Go Barutwana ba ba Tlhokang Tshegetso e e oketsegileng:** Dirisa dipalo le dilo di le mmalwa, mme o neele dithusapono tse dintsi, jaaka diitshate tsa dipalo le dibadi tsa dilo, go thusa ka go tshwantshanya go hala.

EXTRACT PAGES

Tlhakanyo fa go balelwa kwa pele le fa go ntshiwa

Maitlhommo a Thuto:

- Tokafatsa dipalelo tse di senang bokao.
- Ikatisetse go tlhakanya le go ntsha.

Kitsiso	
<ul style="list-style-type: none"> • Simolola ka go itsise dikgopolo tsa go tlhakanya le go ntsha ka tiro e e monate le e e amanang, e leng tshwantshiso ya lebokoso. • Tlhalosa gore fa ditlhopha tse pedi tsa mabokoso di tshwana, re re di a lekana ($2 = 2$) mme re di tshwanetse go tshwao la (=). • Rotloetsa barutwana go dirisa ditlhopha tse tsa mabokoso go ikatisa go tlhakanya, go ntsha le go analoganya tekatekano ka tsela e e bonwang le e e ngokang. • Go tshwaraganela barutwana thata, tlhama dikwere tse 7 go tswa mo tirono go tswa mo tirono bona. Ba neele tseno gore ba tle ba latele. 	
Mafoko/Mareo a Mašwa:	Didirisiwa
<ul style="list-style-type: none"> • Go tlhakanya (+) – Go kopanya dilo kgotsa go kopanya dilo. • Go ntsha (–) – go tlosa dilo mo go tse di kopantsweng • Go lekana – go tshwana. 	<ul style="list-style-type: none"> • Ditshwantshiso di segiweng tsa dikwere di le 7 (di ka nna mo palong, khateboto kgotsa sedirisiwa sena le sekwere se se bonwang bonolo se se ka dikwere kgotsa sekwere go nna sekwere). • Fa go tlogonega, dikhuba di le 7 (5 tse dintsho, 1 e selo le nngwe e pududu).
Ditaelo:	
<ol style="list-style-type: none"> 1. Tiro ya go Tlhakanya: Bontsha palo o dirisa ikhwetse e e $1 + 2 = 3$. Bontsha ka fao go kopanya lebokoso le le 1 le mabokoso a le 2 go felelang ka palogotlha ya mabokoso a le 3. Dirisa dithusapono tse di jaaka dibadi kgotsa ditshwantsho go tshwantsha tiragalo ka tsela e e tshwalang sentle. 2. Tiro ya go ntsha: Bontsha go ntsha ka ikhwetse e e $10 - 3 = 7$. 	
Dikeletso tsa go Ruta:	
<ul style="list-style-type: none"> • Tsenelela Baithuti: Dira gore Dikarabo e dirisane ka go dira gore barutwana ba dirise mabokoso kgotsa dikwere ka mmele. Mokgwa ono wa go tlogonega di tlogonega diatla o thusa go bona ka leitlho la mogopolo dikgopolo tsa go tlhakanya le go ntsha. 	
Dikarabo tsa dithutiso ditiro tsa bukathuto	
Dikarabo: <ol style="list-style-type: none"> 1. 6 2. 4 3. 10 4. 7 5. 11 	Tsebe 14

Go tswa go bala go ya go dipaterone

Maitlhome a go ithuta:

- Bapisa dikokoanyo tsa dilo o dirisa mareo a a tshwanang le bontsi, bonnye; bontsi, bonnye.
- Latelanya dikokoanyo go tswa go: bontsi go ya go bonnye le bonnye go ya go bontsi.

Kitsiso	
<ul style="list-style-type: none"> • Itsise dikgopolo tsa go bapisa le go rulaganya dilo go tshwara dikakanyo tsa Go le gontsi le go le gonnye ka kang. • Ka go supa gore ke setlhopha sefe se segolo kgotsa se sennye, baithuti ba tla tlwaela mareo a tshwanang le "bontsi," "ba le mmalwa," "bontsi," le "bonnye." 	
Mafoko/Mareo a mašwa:	Didiriswa
<ul style="list-style-type: none"> • Ga go na mafoko a mašwa a a tlhagisitsweng. 	<ul style="list-style-type: none"> • Dibadi.
Ditaelo:	
<ol style="list-style-type: none"> 1. Tlhalosa kgopolo: Mo karabong, tlhalosa sentle gore dipelo tse pedi di feta pelo e nngwe. Gatelela gore pedi e emela selekanyo se segolo fa e bapisiwa le e le nngwe, fa e le nngwe e feta pelo e nngwe tse pedi. 2. Papiso ya go ikatisa: Letla barutwana go ikatisa ka dikai tsa tlaleletso, go bapisa dipetole tse di farologaneng tsa dilo go tiisa tlhaloganyo ya bona ya go bapisa le go rulaganya dilekanyo. 	
Dikarabo tsa dithuto/ditiro tsa bukathuto	
Dikarabo: <ol style="list-style-type: none"> 1. a. Dipelo tse 4 di feta dipelo tse 3, lebokoso le le kafa mojemeng. b. Dipelo di le 4 di feta dipelo di le 2, lebokoso le le kafa mojemeng. c. Dipelo di le 5 di feta dipelo di le 3, lebokoso le le kafa mojemeng. 2. a. Dipêre di le 3 di feta dipêre di le 2, lebokoso le le kafa mojemeng. b. Diapole di le 5 di feta diapole di le 2, lebokoso le le kafa mojemeng. 3. a. Dinamune di le 3 di kwa tlase ga di le 4, lebokoso le le kafa mojemeng. b. Dinamune di le 4 di kwa tlase ga 5, lebokoso le le kafa mojemeng. 4. Tsibogo ya moithuti. 	Tsebe 16

Kgobokanya, thopha le go tlhalosa dilo

Maitlomo a Thuto:

- Bapisa dikokoanyo tsa dilo o dirisa mareo a a jaaka bontsi, bonnye; bontsi, bonnye.
- Rulaganya dikokoanyo go tswa go bontsi go ya go bonnye le bonnye go ya go bontsi.

Matseno

- Go itsise kgopolo ya go tlhaola, go kokoanya le go tlhalosa dilo ka Dikarabo e e dirwang ka diatla. Go tlhaola dilo go thusa barutwana go tlhaloganya gore ba ka kgobokanya jang dilwana tse di tshwanang. Mme seno se dira gore go nne bonolo go bona gore go na le dilwana di le kae mo sethopheng sengwe le seno se le gore di ka tlhalosiwa jang.
- Go kaela barutwana mo go tlhaoleng dikokoanyo tsa bona tsa dilo le go ba rotloetsa go tlhalosa thopha tse di farologaneng tse ba di tlhamang.

Ditaelo:

- Tlhalosa dipaterone tse ba di lemogileng. Seno se thusa go sekaseka go tlhaloganya a bone ga go tlhopha le go lemoga dipaterone.
- **Go tiisa:** Tlamela ka dikgwetlho tse dingwe tsa go tlhaola ka dilo tse di farologaneng kgotsa dikelo go nonotsha bokgoni jwa baithuti jwa go tlhaola le go supa dipaterone ka katlego.

Dikarabo tsa dithuto/ditiro tsa bukathuto

Dikarabo:

Tsebe 18

1. Barutwana go tlhopha dilo tsotlhe tse di tshwanang.
2. 11
3. 22
4. 8
5. 21

Tsa motheo le go ya kgakala

Maitlhommo a go ithuta:

- Rarabolola mathata ka tiriso mo bokaong le go tlhalosa ditharabololo tsa mathata a a akaretsang:
- go tlhakanya le go ntsha.
- go abelana ka go lekana le go tlhaola ka ditlhopho go akaretsa le go samagana le masalela.

Kitsiso	
<ul style="list-style-type: none">• Rotloetsa baithuti go tlhalosa ditharabololo tsa bona le mekgwa e ba e dirisitseng, go ba thusa go tlhaloganya ka moo ba ka dirisang dikgopolo tse tsa dipalo mo mabakeng a a farologaneng.	
Sekai	
<ul style="list-style-type: none">• Go sekaseka dintlha tsa motheo tsa go tlhakanya, go ntsha, le go abelana ka go lekana go rarabolola mathata le barutwana mme o ba rotloetse go tlhalosa ditharabololo tsa bona.• Mo palong ya sekao, botsa: "O batla go abelana dimabole di le 3 le ditsala tse pedi. O tla di naya jang?"• Mo tlhalosong, tlhalosa sentle gore Sekai se, se leka bokgoni jwa barutwana jwa go tlhakanya dilwana ka go lekana le go tshwara masalela. Tsala nngwe le nngwe e nna samogela mmabole o le 1, go sala mmabole o le 1.	
Ditaelo:	
<ol style="list-style-type: none">1. Tlhagisa Dikgopolo tsa Mmetsho.2. Nna le Ditiro tsa go Rarabolola Mathata.3. Sekao sa Bothata.4. Tlhalosa Thulaganyo.5. Rotloetsa Ditharabololo	
Dikarabo tsa dithuto/ditiro tsa bukathuto	
Dikarabo:	Tsebe 20
1. 5	
2. 2	
3. 3	
4. 2	
5. 1	
6. 2	
7. 1	
8. 6	
9. 7	
10. 1	

Go dirisa dilo tsa nnete

Go Fopholetsa Dipalo

- Naya phopholetso e e utlwalang ya dilekanyo.

Kitsiso

- Tlhalosa kgopolo ya phopholetso. Sekao, bontsha ka go kopa barutwana go fopholetsa gore go na le dipensele di le kae mo nkgong pele ba di bala.
- Dira gore barutwana ba ikatise go fopholetsa ka go ba kopa go fopholetsa dilekanyo mo ditiro tse di farologaneng, jaaka palo ya ditilo mo phaposing.
- Dira diDikarabo tse mo go tsona barutwana ba bapisang diphopholetso tsa bona le dipalo tsa nnete.

Dikeletso tsa go Ruta:

- **Dipontsho tse di dirisanang:** Dirisa dipontsho tse di bonwang le tse di dirwang ka dialelo go tlhalosa phopholetso. Go dirisana le baithuti ka dilo tsa mmatota le ditiragalo go dira gore ka bonnye tshwarege.
- **Ditiro tse di farologaneng:** Akaretsa mefuta e e farologaneng ya ditiro tsa phopholetso go akaretsa diboka tse di farologaneng le mefuta ya dilekanyo, go netefatsa gore baithuti ba ikatise go fopholetsa mo maemong a a farologaneng.

Dikarabo tsa dithuto/ditiro tsa bukathuto

Dikarabo:

Tsebe 21

- a. Fopholetso: Barutwana ba na le karabo. Maemo mangwe a go tlhaloganya a tshwanetse go bontshiwa mo phopholetsong ya moithuti. Palo: 2
 - b. Fopholetso: Barutwana ba na le karabo. Maemo mangwe a go tlhaloganya a tshwanetse go bontshiwa mo phopholetsong ya moithuti. Palo: 5
 - c. Fopholetso: Barutwana ba na le karabo. Maemo mangwe a go tlhaloganya a tshwanetse go bontshiwa mo phopholetsong ya moithuti. Palo: 7
 - d. Fopholetso: Barutwana ba na le karabo. Maemo mangwe a go tlhaloganya a tshwanetse go bontshiwa mo phopholetsong ya moithuti. Palo: 8
 - e. Fopholetsa: Barutwana ba na le karabo. Maemo mangwe a go tlhaloganya a tshwanetse go bontshiwa mo phopholetsong ya moithuti. Palo: 10.
2. Go sala namune e le 1
Masalela a le 1 a namune ka nnete e a sala.

Dipalo tsa tlhaloganyo di nolofaditsweng

Bapisa dipalo le 5

Maitlhommo a go ithuta:

- Rulaganya dipalo go tswa go 1 go ya go 5 ka go supa maemo a ntlha, a bofelo le a a fa gare.
- Bapisa dipalo go fitlha go 5 ka go bona gore ke efe e e fetang kgotsa e nnye o dirisa go tlhakanya le go ntsha.
- Ikatisetse go dirisa dikarolo tse dinnye go lemoga ka bonako dilekanyo kwantle ga go bala.

Kitsiso	
<ul style="list-style-type: none">• Itsise kgopolo ya go rulaganya dipalo go tswa go 1 go ya go 5 ka go dirisa diDikarabo tse diangakaneng tse dihusa barutwana go ikatisa go supa gore ke palo efe e e leng ya ntlha, ya bofelo, kgotsa e e fa gare.• Fetela kwa go bapiseng dipalo go bona gore ke efe e e fetang kgotsa e e kwa tlase. Dirisa barutwana tse di motlhofo tsa go tlhakanya le go ntsha go bontsha kafa dipalo di amanang ka go dirisa barutwana go bontsha gore 3 e mogolo go feta 2 mme 4 e kwa tlase ga 5.	
Dikeletso tsa go Ruta:	
<ul style="list-style-type: none">• Dithutiso tse di dirisanang.• Dithusapono.• katisetse go dira dikarolo tse dinnye.• Puisano le Go Akanya.• Ditiro tse di farologaneng.	
Dikarabo tsa dithuto/ditiro tsa bukathuto	
Dikarabo ya Matseno:	Tsebe 22
<ol style="list-style-type: none">a. Barutwana ba latedisa mo dibukeng tsa bona go dirisa barutwana: 0; 1; 2; 3. b. Barutwana ba balela dipalo kwa godimo: 0; 1; 2; 3.a. 2 kgotsa B kgotsa boloko ya bobedi/e e fa gare. b. 2 kgotsa C kgotsa boloko ya boraro/e e fa gare. c. Ga di lekane.	
Dikarabo 1:	
<ol style="list-style-type: none">a. 1 b. 3a. Nyaa b. 1Lebokoso lengwe le nna le tshwanetse go nna le dikherayone di le 2 mo go lone.Barutwana ba thaele ba dikerele di le 4 kgotsa ya bobedi kgotsa B kgotsa e e ka fa molemeng.	

Go tlhagisa tse dinnye

Maitlhommo a go ithuta:

- Lemoga gore ke palo efe e e kwa tlase ka go tlhaloganya ka fa go tlosa kgotsa go oketsa go amang bontsi ka teng.
- Rarabolola mathata a mmatota a a akaretsang go tlhakanya le go ntsha mme o tlhalose gore go fitlheletswe jang dikarabo.

Kitsiso

- Simolola ka go ikatisa papiso ya dipalo go fitlha go 5. Dirisa diDikarabo tse di thusang.
- Dirisa diDikarabo tsa diatla go tiisa dikgopolo tse. Dira gore barutwana ba oketse ka go hlolela olo ka mmele mo seteng mme ba bale palo e e bonwang go bona diphetogo ka matlho.
- Rotloetsa barutwana go buisana le go tlhalosa mekgwa ya bona ya go rarabolola mathata a a akaretsang go tlhakanya le go ntsha.

Ditaelo:

1. **Tlhagisa Papiso ya Dipalo:** Simolola ka go ikatisa papiso ya dipalo go fitlha go 5.
2. **Ditiro tsa go Dira ka Diatla:** Tiisa dikgopolo tse ka ditiro tsa diatla.
3. **Rotloetsa Puisano:** Go tsamaisa dipuisano mo barutwana ba tse tse tse tse mekgwa ya bona ya go rarabolola mathata a go tlhakanya le go ntsha.

Dikeletso tsa go Ruta:

- **Dirisa Sekai se se Tshepameng:** Dirisa sekai se se tshepameng jaaka diapole kgotsa diboloko go dira gore dikgopolo tse di sa tlhaloganyesegeng di amane thata. Maitlhommo a a dirwang ka diatla a thusa go tiisa go tlhaloganya.
- **Bona Diphetogo ka leitlho la mogopolo:** Bontsha ka mmele dipalo di fetogang ka teng fa o tlhakanya kgotsa o ntsha o dirisa dithusapono.

Dikarabo tsa dithuto/ditiro tsa bukathuto

Dikarabo 2:

Tsebe 25

1. a. 2
b. 1
c. 3
2. 3
3. 2
4. a. 2

Melapalo

Maitlhommo a go ithuta:

- Ikatise go rarabolola mathata ka dibadi kgotsa dilo tse o ka di amang.
- Bona ka leitlho la mogopolo mathata a dipalo ka go a thala.
- Dirisa mela ya dipalo le dibadi go balela kwa pele le kwa morago.

Kitsiso
<ul style="list-style-type: none">• Itsise kgopolo ya mela ya dipalo jaaka didiriswa tse di bontshang dipalo ka tatelano go tswa go tse di nnye go ya go tse dikgolo. Tlhalosa kafa mela ya dipalo e thusang ka gone go bona ka leitlho la mogopolo mathata a dipalo, e e dirang gore go nne motlhofo go tlhaloganya maemo a tsone a a amanang le tse e.• Bontsha ka moo o ka dirisang mela wa dipalo ka teng go bala. Bontsha barutwana gore o tse naya jang mo moleng go bona gore dipalo di oketsega jang kgotsa di fokotsega jang.
Ditaelo:
<ol style="list-style-type: none">1. Tlhagisa Mela ya Dipalo.2. Bontsha go Bala.3. Ikatsetse go Tlhakanya le go Ntsha.4. Nna le Ditiro tsa go Rarabolola Mathata.5. Rotloetsa Tlhaloso.
Dikeletso tsa go Ruta:
<ul style="list-style-type: none">• Dirisa dithusa-matlho.• Akaretsa tiro ya go dira ka diatla.• Dira sekao sa thulaganyo.• Tlholo gore a o a tlhaloganya.• Dirisa ditiragalo tsa mmatota.
Dikarabo tsa diDikarabo tsa bukathuto
Dikarabo: Tsebe 26
<ol style="list-style-type: none">1. 52. Dikarabo tsa barutwana. Karabo e naya jang go bontsha maemo mangwe a go tlhaloganya.3. a. 5 b. 5 d. 4 e. 1 f. 04. a. 3 b. 4 c. 2 d. 5; 4; 3; 2; 1; 05. a. 3 b. 2 c. 2 d. 1
Tsereganyo/tiro e e tlositseng:
<ul style="list-style-type: none">• Tiriso ya Tlhatlha Akaretsa diitiro tse di jaaka, "Dira gore barutwana ba rarabolole dipalo ba dirisa mela wa dipalo mo nne ba dirise dikarabo tsa bone. Mo go Sekai, 'Dirisa mela wa dipalo go bontsha ka fa o ka tlhakanya jang go ya go 6 ka teng mme morago o batle tharabololo.'

Go Ithuta go ntsha

Maitlhommo a go ithuta:


- Tlhaloganya gore ke palo efe e nnye ka go tlhaloganya ka fao go ntsha go dirang ka teng.
- Dirisa go ntsha mo mathateng a mmatota mme o tlhalose gore dikarabo di bonwe jang.

Kitsiso	
<ul style="list-style-type: none">• Simolola ka go tlhagisa kgopolo ya go ntsha jaaka thulaganyo ya go tlosa dilo mo palogotlheng. Tlhalosa gore fa re ntsha, re fokotsa palo ya dilwana tse re nang le tsone.• Dirisa Sekai se se mosola go tshwantsha go ntsha. Ka sekai, fa go na le diapole di le 5 mme go na le diapole di le 2, bontsha gore o ka bona jang gore go setse diapole di le kae.	
Dikarabo tsa dithuto/ditiro tsa bukathuto	
Dikarabo:	Tsebe 28
1. 4	
2. 3	
3. 2	
Tsereganyo/tiro e e atolositsweng:	
<ul style="list-style-type: none">• Tiriso ya Tlathhobo: Akaretsa ditiro tse di jaaka, "Dira gore ba... rarabolole dipalo tsa go ntsha mme ba kwale dikarabo tsa bone. Sekai, 'Fa o na le diapole di le 5 mme go na le diapole di le 3, go setse diapole di le kae? Kwala karabo mme o bontshe tiro ya gago.'• Tiro ya Setlhopho/Dipara: DiDikarabo tsa go nolofatsa mo baru... ba dirang ka bobedi go rarabolola mathata a go ntsha. Sekai, "Dirang le molekane go... sa dipadi kgotsa diboloko go rarabolola mathata a go ntsha mmogo. Buisanang ka mekgwa ya lona mme... hole dikarabo tsa mongwe le mongwe."• Go Baithuti ba ba Tlhokang Kemonokeng e... ketsego: Dirisa dithusapono le dilo tse di dirisiwang ka boferere. Sekai, "Naya baithuti dithusapono tse di jaaka mela ya dipalo kgotsa dirisa dipadi go emela ka namana mathata a go ntsha. Simolola ka... palo tse... dinnye mme o oketse go raraana ka iketlo."	

Maina a dipalo le matshwao

Maitlhommo a go ithuta:

- Lemoga le go buisa matshwao a dipalo go tswa go 1 go ya go 20.
- Kwala dipalo le maina a dipalo go fitlha go 10.
- Ikatsetse go kopanya dipalo go dira 5 le go tlhaloganya ka fa di dirang ka teng.
- Tlhalosa dipalo jaaka tse dinnye kgotsa tse dikgolo mme o di rulaganye go tswa mo go tse dinnye go ya kwa go tse dikgolo. Tlhaola le go bala Matshwaopalo go tloga go 1 go ya go 20.

Kitsiso	
<ul style="list-style-type: none"> • Le fa go sa neelwa Sekai se se rileng, karolo eno e tlhomile mogopolo mo go tlhaloganyeng go dirisa le go kwala dipalo le go sekaseka ditsela tse di farologaneng tsa go tlhakanya go fitlha go 5. • Boikaelelo ke go ikatisa kgopolo ya go tlhakanya ka go batla dikopano tse di farologaneng mo matshwaopalo tse di dirang 5. • Mo tlhalosong, tlhalosa gore barutwana ba lekwa mo bokgoning jwa bona jwa go batla dipalo tse di farologaneng kgotsa ditlhopho tsa dipalo tse di kopanyang go nna 5. • Dirisa dikarata tsa dipalo kgotsa dipadi go batla dipara tsoitlhe kgotsa ditlhopho tsa dipalo tse di tlhakanyang go fitlha go 5, jaaka $1 + 4$ le $2 + 3$. 	
Ditaelo:	
<ol style="list-style-type: none"> 1. itsise maina a dipalo le matshwao. 2. batlisisa ditlamo tsa dipalo. 3. ikatise ka maina a dipalo le matshwao. 4. dirisa dibonto tsa dipalo mo dithutisong. 5. rotloetsa tlhaloso. 	
Dikarabo tsa dithuto/ditiro tsa bukathuto	
Dikarabo: 1. a. 1; 2; 3; 4; 5 b. nngwe – 1; pedi – 2; tharo – 3; nne – 4; tlhano – 5 c. 3; 5; 1; 2; 4 d. 1; 2; 3; 4; 5 2. a. 3 b. 1 c. 4 d. 0 3. a. 5 b. 4 c. 3 d. 3 4. 5; 4; 3; 2; 1 5. a. Nne b. Pedi c. Nngwe d. Tharo e. Tlhano	Tsebe 29
Dikarabo: 1. karabo e neetswe mo bukeng ya barutwana 2. a. 3 b. 1 c. 2 d. 4 3. a. 2 b. 4 c. 0 d. 1 4. a. 2 b. 3 c. 1 5. 0; 1; 2; 3; 4; 5 6. <div style="display: flex; justify-content: space-around; align-items: center; margin: 10px 0;">  </div> 7. a. 5 b. 5 c. 4 8. karabo e neetswe mo bukeng ya barutwana	Tsebe 31–32

Monate o o menaganeng gabedi

Maitlhommo a go ithuta:

Tsebe 35

In this lesson learners will:

- Dirisa go dira gabedi go rarabolola mathata mo maemong a mmatota a botshelo.
- Ithute gore go menaganya gabedi go raya go oketsa palo mo go yone.

Kitsiso

- Sekai se se tshwantsha kgopolo ya go menaganya gabedi ka go dirisa potso e e reng: Fa o menaganya 4 gabedi go nna le diphelelo dife? Karabo ke $4 + 4 = 8$.

Ditaelo

1. dirisa dikao tse di mosola.
2. nna le ditiro tsa go menaganya.
3. naya dithutiso tsa go dira ka diatla.
4. rotloetsa tlhaloso.

Dikeletso tsa go Ruta:

- dithusapono.
- didirisiwa tse di dirisanang.
- go menaganya mmotlolo gabedi.
- sekai sa botshelo jwa mmatotatlhola thulaganyo.

Dikarabo tsa dithuto/ditiro tsa bukathuto

Dikarabo:

1. a. $2 + 2 = 4$
b. $1 + 1 = 2$
2. 2
3. $2 + 2 = 4$
4. $1 + 1 = 2$
5. a. 10
b. 8
c. 10

Tsebe 35–36

Go Kgaola ka Halofo go Dirilwe Bonolo

Maitlhomong a go ithuta:

- Dirisa go kgaoganya ka halofo go rarabolola mathata a mmatota ka go abelana dilwana ka go lekana.
- Ithute gore go kgaoganya sengwe ka halofo go kaya go kgaoganya sengwe ka dikarolo tse pedi tse di lekanang.

Kitsiso	
<ul style="list-style-type: none">• Dirisa dikao tse di mosola go tshwantsha go kgaoganya ka halofo. Sekai, fa o na le dikuku di le 4 mme o batla go di abelana le tsala ya gago ka go lekana, o di kgaoganya ka ditlhopho di le 2 tsa dikuku di le 2 nngwe le nngwe.	
Sekai <ul style="list-style-type: none">• Sekai se se bontsha ka moo palo e kgaogangwang ka dikarolo tse di lekanang ka potso e o na le dikuku di le 4. Motho mongwe le mongwe o bona di le kae fa o di kgaoganya ka go lekana magareng ga batho ba le 2? Karabo ke dikuku di le 2 ka motho.	
Dikarabo tsa dithuto/ditiro tsa bukathuto	
Dikarabo:	Tsebe 38
1. a. Motho mongwe le mongwe o newa di-lollipop di le 2. b. Tanka nngwe le nngwe e tla nna le tlhapi e le 1.	

Maano a go ruta dipalo ka kgetsi ya: Go kgaola ka halofo

Maano a a latelang a thusa barutabana ba Banga 1 go ruta dipalo ka go tlhaloganya, e seng fela ka go gopola. Go ruta ka tlhaloganyo go tlhomamisa gore ngwana o tlhalela kgetsi ya halofo ka tsela e e bonalang le e e amanang le botshelo jwa gagwe.

Maano a go ruta le mekgwa

1. Dirisa dilo tse di bonalang jaaka dipompo, dipentšenele, di-lego kgotsa ditshwantsho.
2. Dirisa dipapadi le metshameko go sekaseka dikao tse pedi tse di lekanang (go kgaoganya diapole tse pedi mo bana ba le babedi).
3. Dirisa ditshwantsho kgotsa dikao tse di bontshang kgaoganyo ya dilo ka halofo.
4. Botsa dipotso tse di bulehileng go tseba ngwana go tlhalosa tsela e a e dirisang go kgaoganya dilo.
5. Kgothaletsa tiro ka dihlophiso tse dinnye kgotsa ka balekane go dira ditlhopho tsa dilo tse pedi tse di lekanang.
6. Bontsha phapisego fa ba kgaoganya dilo mo ditlhopheng tse di sa lekaneng go tlhalosa phoso.
7. Kgomolola maikutlo a baithuti ka go ba akaretša mo puisanyong ya se ba se dirang le se ba se lemolang.

Bogosi jwa dipopego le dipaterone

Boemo, tiwaelo le dipono

Maitlomo a go ithuta:

- Dirisa mafoko a a tshwanang le fa pele ga, kwa morago, ka fa molemeng, ka fa mojang, go bapa le, fa gare, kwa godimo le kwa tlase go tlhalosa gore dilo di fa kae.
- Dirisa tlotlofoko e go bapisa dipalo le go latela ditaelo.
- Latela Ditaelo tse di bonolo go tsamaisa dilo go dikologa, jaaka go baya bolo go bapa le lebo.

Ditaelo:
<ol style="list-style-type: none">1. tsenya tlotlofoko ya boemo le kaelo.2. dirisa kgang go tshwantsha.3. tsenelela mo ditirong tsa kaelo.4. akaretsa dithusapono.5. rotloetsa puisano.
Dikeletso tsa tsamaya Ruta:
<ul style="list-style-type: none">• dipontsho tsa ditshwantsho le tsa mmele.• diDikarabo tsa tirisano.• dikgolagano tsa botshelo jwa mmatota.• tlhola tlhaloganyo.
Dikarabo tsa dithuto/ditiro tsa bukathuto
Dikarabo: Tsebe 42
<ol style="list-style-type: none">1. Retologela ka fa molemeng go tswa mo lefelong la nagwe la tiro. Retologela ka fa mojang, o lebile moithuti wa B.2. Retologela ka fa mojang go tswa mo mafelong a nagwe la tiro. Retologela ka fa molemeng o lebile kwa tafoleng ya morutabana. Pele fela ga o goroganele tafoleng ya morutabana, retologela ka fa mojang.

Maano a go Ruta Dipaterone ka Kae si ya: Boemo, Tiwaelo le Dipono

Barutabana ba Banga 11 ka ruta thuto ya boemo, tiwaelo le dipono ka tsela e e rutang ka tlhaloganyo ka go dirisa mekgwa e e tshwaraganeng le botshelo jwa ngwana. Maano a a latelang a ikamanya le mananeo a CAPS a a rotloetsang thuto ya dipalo ka go tlhaloganyo, e seng ka go gopola fela.

Maano a go Ruta le Mekgwa ya go Rutuntsha

1. Dirisa mmele tse di tshelang mo mmeleng (body-based learning) jaaka go supa fa pele, kwa morago, kwa mojang le kwa molemeng ka mmele.
2. Baya bana mo mafelong a a farologaneng mo phaposeng ya borutelo mme o ba kope go tlhalosa gore ba fa kae.
3. Dirisa didiriswa tse di bonalang jaaka dibolo, mabokoso kgotsa dipene go bontsha dipalopalo tsa boemo.
4. Dirisa dipapadi tse di amanang le boemo: 'Ke fa pele ga...' kgotsa 'Ke fa mojang ga...'.
5. Bontsha bana ditshwantsho tse di nang le batho kgotsa dilo tse di fa mafelong a a farologaneng mme o ba kope go tlhalosa gore di kwa kae.
6. Akaretsa ditiro tsa puisano ka se ba se bonang le fa dilo di le mo maemong a a farologaneng.
7. Rotloetsa bana go dirisa mafoko a leina a boemo mo dipuisanong tsa letsatsi le letsatsi.

Leoto lwa dipopego

Dipaterone tsa jometeri le tsa dipalo

Maitlthomo a go ithuta:

- Kopolola le go atolosa dipaterone tse di bonolo o dirisa dipopego le mebala, e ka nna ka go thala kgotsa ka go dirisa dilo tse di bonalang.
- Kopolola, atolosa, le go tlhalosa tatelano ya dipalo, o bale kwa pele le kwa morago go fitlha go 50.

Dikeletso tsa go Ruta:	
<ul style="list-style-type: none">• dipontsho tsa pono.• go tlhama dipaterone tse di dirisanang.• dikgolagano tsa lefatshe la mmatota.• tlhola thulaganyo.	
Dikarabo tsa dithuto/ditiro tsa bukathuto	
Dikarabo: 1. Sekwere se sehibidu; khutlotharo e ntsho. 2. Sekwere se se serolwana; sediko se sentsho. 3. 'X' e ntsho; sediko se sentsho.	Tsebe 44 (dipaterone tsa jometeri)
Dikarabo: 1. 20; 21 ; 22; 23 ; 24; 25 2. 26; 27 ; 28; 29 ; 30; 31 3. 32; 33 ; 34; 35 ; 36; 37 4. 38; 39 ; 40; 41 ; 42; 43 5. 49; 48 ; 47; 46 ; 45 ; 44	Tsebe 44 (dipaterone tsa dipalo)
Tsereganyo/tiro e e atolositsweng:	
<ul style="list-style-type: none">• Tiriso ya Tlathhobo: Akaretsa ditiro tse di tshwanetse gore barutwana ba itirele dipaterone le go tlhalosa melao e e di laolang.• Tiro ya Setlhopha/Dipara: Rulaganyo ya dikarabo mo barutwana ba dirang ka bobedi kgotsa ka ditlhopha tse dinnye go batla le go buisana mo barutwaneng mo dilong kgotsa mo ditshwantshong.• Go Baithuti ba ba Tlhokaganyo, Kemo, Keng e e oketsegileng: Dirisa Dithusapono tsa tlaletso le dipaterone tse di bonolo go thusa barutwana go tlhaloganya kgopolo ya motheo ya tatelano ya dipoeletso.	

Go lekanya ditiragalo mo sekgweng

Go bapisa le go lekanya boima ka go dirisa diyuniti tse di sa tlwaelegang

Maitlhommo a go ithuta:

- Tlhaloganya le go dirisa mareo a a tshwanang le bokete, botlhofo, go feta, go le gonnye, go gogolo, le go le gonnye.
- Ithute go rulaganya dilo ka bokete le bogolo.
- Ikatise go lekanya ka dilwana tse di jaaka diboloko kgotsa diatla.

Dikeletso tsa go Ruta:

- **Dipapiso tsa Pono:** Dirisa Dithusapono le dipontsho tsa mmele go tshwantsha diphapiso tsa bokete magareng ga dilo.
- **Tekanyo ya Tirisanommogo:** Akaretsa ditiro tsa diatla mo baiithuti ba dirisang dikalaka tsa katekano kgotsa didiriswa tse dingwe tsa tekanyo go dirisana ka tlhamalalo le kgopolo ya bokete.
- **Bokao jwa Botshelo jwa Nnete:** Amanyana ditiro tsa go lekanya le ditiragalo tsa bokete le la nnete go dira gore kgopolo e amane le go nna mosola.
- **Tihola Tlhaloganyo:** Tlhatlhoba bokgoni jwa baiithuti ka metlha jwa go dirisa go tlhalosa bokete jwa dilo, go neela ditshwaelo go tiisa tlhaloganyo ya bona.

Dikarabo tsa dithuto/ditiro tsa bukathuto

Dikarabo:

Tsebe 47

1. B; A; C **kgotsa** ntšwa; katse; peba
2. B
3. B
4. A
5. A

Tsereganyo/tiro e e atolositsweng

Ikatise ka nosi:

Fana ka dipampiri tsa tshebetsa tsa mabetsi moo barutwana ba sebedisang diyuniti tse sa tlwaelegang (jwalo ka matsogo kapa diboloko) go lekanya boima ba dintho tse fapaneng.

Pharologano:

- **Go Baiithuti ba boikagiso e seng Pule:** Iksise ditiro tse di akaretsang mekgwa e e nepagetseng thata ya go lekanya le dipapiso o dirisa diyuniti tse di tlwaelegileng tsa bokete, jaaka digerama kgotsa dikilogerama.

Dikgopolo tsa nako tsa letsatsi le letsatsi

Go tlhaloganya dinako tsa letsatsi, malatsi a beke, dikgwedi tsa ngwaga le go feta ga nako

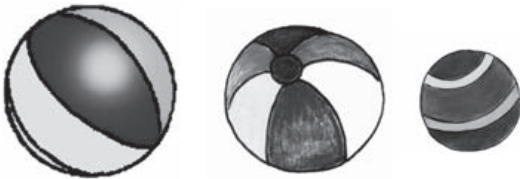
Maitlomo a go ithuta:




- Dirisa mafoko a a tshwanang le telele, khutshwane, ka bonako, le bonya go tlhalosa ka fa dilo di diragalang ka teng, o tlhaloganye go feta ga nako.
- Lemoga le go tlhalosa moso, thapama le maitseboa go lemoga dinako tsa letsatsi.
- Dirisa mareo a a tshwanang le maabane, gompieno, le ka moso go latelanya ditiragalo.
- Naya maina le go rulaganya malatsi a beke le dikgwedi tsa ngwaga go itse malatsi le dikgwedi.

Dikarabo tsa dithuto/ditiro tsa bukathuto	
Dikarabo: 1. a. maitsebowa b. Mo mosong c. Motsegane 2. C; A; B	Tsebe 51 (dinako fa e le letsatsi)
Dikarabo: 1. 7 2. Labobedi 3. Lamatlhatso 4. Mosupologo 5. Mosupologo, Labobedi, Laboraro, Labone, Labanano	Tsebe 52 (malatsi a beke)
Dikarabo: 1. 12 2. Ithute karabo ya gagwe 3. Sedimonthole 4. Ferikgong 5. Motsheganong	Tsebe 53 (dikgwedi tsa ngwaga)
Dikarabo: 1. La Tshipi 2. a. isago b. ya ga jama	Tsebe 55 (go feta ga nako)

Dikarabo:

- 5
- a. 3
b. tharo
- a. 1; 2; 3; 4; 5
b. 10; **9; 8**; 7; **6**; 5; 4
- Pele ga tlaleletso: 4.
Morago ga tlaleletso: 5
- 4
- Bolo ya lebopo (C) ke yone e kgolo go gaisa. Bolo e nngwe ya lebopo (A) e nnye go feta C mme e kgolo go feta bolo ya kgwele ya dinao (B).



- 7.a.  NNGWE
- b.  PEDI
- c.  THARO

- 1; 2; 3; 4; 5
- Nišwa e ka fa tlase ga setulo mme ka e mo godimo ga setulo.
- Ka fa tlase ga: A le B
- a. 2
b. 3
- a. Lebokoso KGO. A p...eme ya khutlonnetsepa.
b. Bolo KGOTS...ngolokwe
- Karabo ya...ha boene. Karabo e senola boemo bo bo rileng ba go tlhaloganya potso.
- 20
- 6



Dipalo · Mophato wa 1 Kgweditsharo 2

+ (Go oketsa)

÷ (Go fokotsa)

Go ya kwa godimo ka dipalo

Kgweditharo 2

O bala ka bo1, bo2, bo5, bo10

Maitlomo a go ithuta

- Baihuti ba tshwanetse go kgona go bala ka bo-1, bo2, bo5 le bo10.
- Dirisa kgang ya ga Amina go simolola kgopolo ya go bala.

Tla re bone se o se itseng

1.Go bala	2.Go bala le paterone	Tsebe 61
a. 6 b. 3 c. 4 d. 2 e. 1;2;3;4;5;6;7;8;9;10	a. C;B;A;D b. 4 c. 2	
3. Go tlhakanya	4. Go tshwana tsebo e setso	
a. $2=1+1$ b. $3=2+1$ c. $4=1+3$ d. $5=4+1$ e. $10=1+9$	a. Theki b. Llori c. Tsela e maitluti a arabang ka yone	

Simolola ka go Bala ka bo1 : Go palama tseba ya dipalo!

- Mola wa Dipalo: Tlhama mola o mogolo wa dipalo go tswa go 1 go ya go 50. Dira gore barutwana ba tlole mo moleng wa dipalo, ba bale kwa godimo ka...
- Dipina le Dipina: Dirisa dipina tse di...

Go bala ka bo5

- Go Bala ka Diatla: Dirisa...
- Dinikele tsa bo5: Bontsha...
- Go Bala Diatla: Dira gore...

O dirile Sekai

Tsebe 63

- a. 23; 24; 25; 26; 27; 28; 29
b. 30; 31; 32; 33; 34; 35; 36
c. 12; 13; 14; 15; 16; 17

O dirile Sekai

- a. 2; 4; 6 b. 5; 10 c. 30; 40; 50

Dikarabo tsa diDikarabo tsa bukathuto

Dikarabo:

Tsebe 64

1. a. 37; 38; 39; **40; 41**
b. 42; 43; **44; 45**
c. **46; 47; 48**; 49; 50
2. Tlatsa disilindara tseo
a. 2; 4; 6; 8; 10; 12; 14
b. 5; **10; 15; 20**
c. 10; **20; 30; 40**

Monate ka tlaleletso: go feta le tse dinnye go ya go tse dikgolo

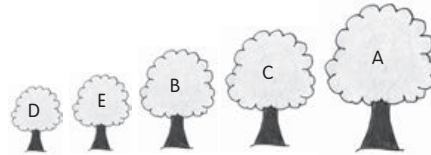
Maitlthomo a go ithuta

- Baithuti ba tshwanetse go kgona go farologanya gore ke efe e e kwa godimo le e e kwa tlase.
- Baithuti ba tshwanetse go kgona go rulaganya dilo ka tatelano ya tsona e e tthatlogang le e e fologang.

Dikarabo tsa diDikarabo tsa bukathuto

Dikarabo:

- a. 6; 18; 22; 28; 32; 40; 44; 46; 50
b. Karabo: D, E, B, C, A



Tsebe 66

Go batlisisa dipalo mmogo

Maitlthomo a go ithuta

- Barutwana ba tshwanetse go kgona go bitsa maina a dipalo ka go leba matshwao a dipalo.
- Lemoga matshwao a dipalo.

Kitsiso le Sekai

- Dirisa Diphousetara tsa Dipalo: Tlhamo diphousetara tse di mebalabala tse di nang le matshwao a dipalo ka bobedi le maina a tsona. Sekai, phousetara e ka tona ya tsona:
- 1 (Nngwe) e e nang le setshwantsho sa apole e nngwe.
- 2 (Tse pedi) ka setshwantsho sa diawpole tse pedi.

Sekai se se dirilweng

- Motshameko wa go Tshwantshanya: dikarata tse di nang le matshwao a dipalo le maina a dipalo. Kopa barutwana go nyalanya letshwao le tshwao e nngwe la dipalo le leina la lone. Ka sekai, tshwantshanya 3 le Tharo.
- Go Tsoma dipalo: Fitlha dikarata tsa dipalo go dikologa phaposiborutelo. Fa bana ba bona karata, ba buela leina la nomoro kwa godimo. Sekai: a nngwana a bona karata e e nang le 4, ba re "Nne" mme gongwe ba bone dilo di le nne tse ba ka di rulagang.

Didiriswa

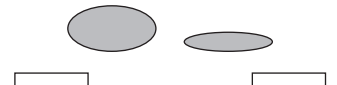




Dikarabo tsa diDikarabo tsa bukathuto

Dikarabo:

- a. 10 b. 12
c. 14 d. 8
- a. Tharo b. nngwe
c. Tlhano d. nne
- a. **pedi; tharo; nne; tlhano; thataro; supa; robedi**
b. **pedi** - 2
tharo - 3
nne - 4
tlhano - 5
thataro - 6
supa - 7
robedi - 8

- a. Nne + nne = robedi
b. tharo + pedi = tlhano
c. tlhano + tharo = robedi

Tsebe 67

4	nne	
6	thataro	
2	pedi	
8	robedi	
7	Supa	

6. a. **supa**
 b. **thataro**
 c. **nne**
 d. **robedi**
 e. **nne**
 f. **thataro**

Maano a go Ruta Dipalo ka Tlhaloso: Mainane a Dipalo le Ditsupo

1. Dirisa dilo tse di bonalang (dikarata, dipine, kompotla) go fa ngwana kgokaganyo magareng ga palo le setsupo sa yone.
2. Kwala palo ka mainane le ka ditsupo (boholo 3") go dira kgokagano ya puo le palo.
3. Ruta dipalo ka tlhama dipina, di-mpadi, dipolelo tse di akaretsang mainane a dipalo.
4. Dirisa ditshwantsho le mealwa ya palo mo dikologong ya ngwana (palo ya diphatlha mo forong).
5. Akaretsa dipotso tse di bontshang tse di rotloetsang ngwana go tlhalosa gore o itse jang palo eo.

Monate wa go bala ka tlhaloganyo!

Maitlhommo a go ithuta

- Baiithuti ba tshwanetse go kgona go balelela ba dirisa mola wa dipalo le go bolela maemo mo moleng wa dipalo.
- Go bala dilo

Kitsiso le Sekai	
<ul style="list-style-type: none"> • Simolola ka go tlhakanya le go ntsha ga motheo o dirisa dipalo tse dinnye. Dirisa Dithusapono jaaka dipadi kgotsa mela ya dipalo go ba thusa go tlhaloganya. • Tlhama dikgang tse di bonolo kgotsa ditiragalo tse di akaretsang go bala kgotsa ditiro tsa motheo. Sekai: "Fa o na le diapole di le 3 mme o bona tse dingwe di le 2, jaanong o na le diapole di le kae?" • Ba rute go dira diphopholetso tse di bonolo. Go Sekai, ba kope go fopholetsa gore go na le diboloko tse kae mo nkgong pele o di bala. 	
Didiriswa	Mafoko/Mareo a mašwa:
<ul style="list-style-type: none"> • Dipadi • Diboloko • diapole 	Fopholetsa
Kaedi/Mokgwa/Togamano e e rileng	
<ul style="list-style-type: none"> • Go Bala ka Dilo: Dirisa dilo tsa letsatsi le letsatsi tse di jaaka ditshwanelo, diboloko, kgotsa maungo. Go Sekai, tsenya diapole di le 5 mo setlhopheng se le sengwe mme diapole di le 3 mo go se sengwe. Botsa gore, "Ke setlhophha sefe se se nang le tse dintsi?" le "Ke efe e e nang le go le tse dinnye?" Sekai se se na le go isa kwa go bapiseng dipalo. 	
Dikarabo tsa diDikarabo tsa bukathuto	
Dikarabo:	Tsebe 70
<ol style="list-style-type: none"> <ol style="list-style-type: none"> a. Phfoletso e ka nna palo nngwe le nngwe fa gare ga 5 le 7. Karabo 6. b. Phfoletso e ka nna palo nngwe le nngwe fa gare ga 7 le 8. Karabo 7. ke dibaga di le 4 c. ke dibaga di le 7 d. Re tlhoka go tsenya dibaga di le 3 e. Feleletsa 7 e feta 6 ka ? Karabo 1 <ol style="list-style-type: none"> a. 5 le 2 go feta ke 7 b. 4 le 2 go feta ke 6 <ol style="list-style-type: none"> a. Dikoko di le 3 le dinonyana di le 3. $3 + 3 = 6$ diphologolo. b. Dikoko tse 2 le dirurubane tse 4. $2 + 4 = 6$ diphologolo. Tsothe kwa ntle ga wa bobedi (Sediko se se serolwana). $2 + 4 = 6$ $5 + 1 = 6$ $0 + 6 = 6$ $4 + 2 = 6$ $1 + 5 = 6$ $6 + 0 = 6$ <ol style="list-style-type: none"> a. $4 + 2 = 6$. tsenya 2 b. 1; 2; 3; 4; 5; 6 karabo ke 5 c. 1; 2; 3; 4; 5; 6 karabo ke 5 d. $3 + 3 = 6$ karabo ke 3 e. $6 - 2 = 4$ karabo ke 4 f. $6 + 1 = 7$ karabo ke 7 g. Fa barutwana Sekai se se ka nnang diapole di le 6 mme o ba bontshe gore diapole tseno di ka abelanwa jang ka go lekana magareng ga batho ba le 2 gore motho mongwe le mongwe a bone diapole di le 3 mongwe le mongwe. 	

Tsereganyo/tiro e e atolositsweng**Tsereganyo**

- Tlhama Molapalo o mogolo mo bodilong kgotsa mo leboteng mo barutwana ba ka bayang dilo ka mmele go bona ka leitlho la mogopolo wa dipapiso tsa dipalo.
- Dirisa dilo tse di bonalang (sekae, diboloko, dipadi, kgotsa ditshamekisi) go supa dikgopolo. Ka sekai, bontsha diboloko di le 3 mme morago ga moo diboloko di le 5, o tlhalose gore ke setlhopha sefe se se nang le go le gontsi kgotsa go le gonnye.
- Dirisa Molapalo, ditšhate tsa dipalo, le ditshupo tsa ditshwantsho go thusa barutwana go bona ka leitlho la mogopolo dikgopolo tsa go feta le kwa tlase ga.

Konosetso

- Sobokanya Dikgopolo Tsa Botlhokwa: Sekaseka ka bokhutshwane dikgopolo tsa konokono tse di akadeditsweng mo Dikarabo—go fopholetsa dipalo, go tlhakanya dipalo tsa motheo le go rarabolola matlata kotsela e e motlhofo ka dipalo tse di jaaka 6 le 7.
- Sekai go Nonotsha Tlhaloganyo: Dirisa dilo tsa letsatsi le letsatsi jaaka diapole kgotsa ditshamekisi go bontsha ka bonako kafa dikgopolo tse di jaaka go abelana ka go lekana, go oketsa le go ntsha di dirang ka gone.

Dipotso tse di dirisanang

- Botsa barutwana dipotso tse di bonolo, jaaka, “Fa nka oketsa 1 mo go tla nna le di le kae?” Seno se tiisa go ithuta ga bone le go rotloetsa go tsaya karolo ka matlhagatlhaga.
- Dirisa didiriswa tse di dirisiwang ka diatla (dipheta, diboloko, kgotsa dipadi) go bontsha ka pono go tlhakanya le go ntsha go dira gore thulaganyo ya go ithuta e nne e e kgatlhang matlata.
- Dirisa Sekai sa nnete, jaaka go abelana dijo tse di botlhoswane kgotsa ditshamekisi, go dira gore kgopolo ya go abelana ka go lekana e tlhaloganyesegse sentle. Seno se tiisa baithuti go dirisa se ba se ithutileng mo maemong a a mosola.

Tsamaya e e siameng

- Akgolela barutwana maiteko a bona le dikarabo tse di magetseng go rotloetsa boitshepo le thotloetso.
- Letla barutwana go abelana ka thulaganyo ya bona ya go akanya go godisa tlhaloganyo ya bona ya ditiro.

Dikarabo kgotsa Motshameko wa Bofelo

- Fetsa ka motshameko o o bonako, o o nnete o barutwana ba fopholetsang palo ya dilo, kgotsa ba kgaoganya dilo magareng ga ditsala, ba tiisa dikgopolo ka motshameko.

Dipalo ka bonako

Maitlhommo a go ithuta

Tsebe 78

- Baithuti ba tshwanetse go kgona go balelela dikgolagano tse di dirang palo e e rileng.
- Baithuti ba tshwanetse go kgona go dira tiro ya go ntsha mo moleng wa dipalo.
- Go atisa mo moleng wa dipalo ka go tlola.

Kitsiso le Sekai		
<ul style="list-style-type: none"> • Dirisa mola o mogolo wa dipalo o o mebalabala fa fatshe kgotsa pampiri e kgolo. Netefatsa gore o kgolo mo bana ba ka tlolang mo go yone. E kwale ka dipalo go tswa go 0 go ya go 10 kgotsa 0 go ya go 10, e tikaegile ka gore ba tlwaetse dipalo go le kana kang. • Fa o na le sebaka, o ka dirisa dimetse tsa foam kgotsa theipi e e mebalabala fa fatshe go dira moia wa dipalo. Dira gore palo nngwe le nngwe e tlhaolege e bile e bonwe bonolo. • Simolola ka go bontsha ka fa o ka tlolang ka teng mo moleng wa dipalo. Ka sekai, "Fa ke simolola ka 3 mme ke batla go oketsa ka 2, ke tla tlolela kwa pele ka diphatlha tse pedi go ya kwa 5." • Dira gore bana ba refosane go tlolela mo moleng wa dipalo go tlwaela kakaretso ya go ya kwa pele le kwa morago. Ba rotloetse go bala palo ya ditlolo kwa godimo. 		
O dirile Sekai		
1. 1 le _____ di dira 4	Karabo	3 Karabo = 4
Didiriswa		
<ul style="list-style-type: none"> • Letlhare le legolo la pampiri • Moseme wa dipalo • Theipi e e mebalabala 		
Kaedi/Mokgwa/Togamano e e rileng		
<ul style="list-style-type: none"> • Dirisa dilo tse dinnye jaaka diboloko, dibere tsa go tlola, kgotsa dikonopo. Simolola ka selo se le 1 mme o kope ngwana go batlisisa gore go tlhokega tse di tshwanetseng tse di kae go dira 4. Mokgwa ono wa go dira ka diatla o ba thusa go bona bothata ka leitlho la dipalo. • Tlhama meseme e di nang le dipalo tse di tshwanetseng a lolea mo bana ba ka bayang dipadi teng. Mo go Sekai, mmete o o nang le khaontara o 1 le o batlha di le 3 tse di senang sepe o ka ba thusa go bona gore go oketsa ka tse dingwe di le 3 go tlolang ka le 4. • Bolela kgang e e bonolo mo moleng wa dipalo ba tlhokang go kopanya dilwana. Mo go Sekai, "Anna o na le apole e le 1, mme o tlhoka diapole di le 4. Akaretso. O tlhoka diapole tse dingwe di le kae?" Dirisa Dithusapono go dira gore e ngoke. 		
Konosetso		
<ul style="list-style-type: none"> • Akaretsa mo moleng wa dipalo e e bonolo e mo go yona baithuti ba tsamaisang letshwao kgotsa moanelwa mo moleng wa dipalo, ba dirisa kgotsa ba ntsha fa ba ntse ba tsamaya. • Dirisa bothata a kgang a a akaretsang go tlhakanya kgotsa go ntsha ka diteng tse di amanang. Ka sekai, "Fa o na le apole di le 3 mme o bona tse dingwe di le 2, o wela kae mo moleng wa dipalo?" 		
Dikarabo:		
Tsebe 73		
1. a. 2 le 5 di dira <u>7</u>	b. 3 le 4 di dira <u>7</u>	c. 4 le 3 di dira <u>7</u>
d. 5 le 2 di dira <u>7</u>	e. 6 le 1 di dira <u>7</u>	f. 7 le 0 di dira <u>7</u>
2. a. 0;1;2;3;4;5;6;7	3. a. 7 - 3 = 4	
b. 4 + 3 = 7	b. 7 - 1 = 6	
c. 5 + 2 = 7	c. 6 - 2 = 4	
d. 6 + 1 = 7	d. 5 - 3 = 2	
	e. 7 - 2 = 5	
	f. 7 - 2 = 5	

Ikatiso go Tlhakanyetsa ka bonako

Maitlhommo a go ithuta

LB tsebe 76

- Baithuti ba tshwanetse go kgona go tlhakanya dipalo.
- Baithuti ba tshwanetse go kgona go tlhomamisa palo e e tlhaelang mo kgolaganong (tlhakantsho).

Kitsiso le Sekai	
<ul style="list-style-type: none"> Tsenya tlaleletso ka Sekai sa diapole mme o tseye apole e le 1 le apole e nngwe tse pedi di dire diapole di le 2. Baya palo e nnye ya matlapa mo mmeteng (sekao, matlapa a le 3). Go tswa foo, baya matlapa a le nngwe a le mmalwa gaufi le tsone (sekao, matlapa a le 2). "Re na le matlapa a le kae fano?" (Matlapa a le 3). "Re na le matlapa a le kae fano?" (Matlapa a le 2). Kopanya matlapa mme o a bale otlhe. "A re di bale mmogo go bona gore re na le di le kae ka haka moo." 	
Didiriswa	Mafoko/Mareo a mašwa:
<ul style="list-style-type: none"> Diapole 	<ul style="list-style-type: none"> Tlaleletso – Go nna le tse di nnye
Kaedi/Mokgwa/Togamano e e rileng	
<ul style="list-style-type: none"> Bontsha menwana e le 3, o bo o tsenya monwana o mongwe o le 1 go bontsha palo ka mmalwa la mogopolo. Dirisa didiko tse di mebalabala kgotsa dikarolo tsa selo se se feletseng, go bontsha ka fao 3 le 1 di ka kopanang go dira 4. Tsenya dikgolaganano tsa dipalo ka pono ka go kgaoganya palo go bontsha dikarolo tse pedi. Sekao, mo go 4, dirisa 3 le 1 go bontsha ka fa di "golaganang" mmogo ka teng. 	
Dikarabo tsa diDikarabo tsa bukathuto	
Dikarabo:	Tsebe 76
1. a. $2 + 3 = \underline{5}$ b. $4 + 2 = \underline{6}$ c. $6 + 0 = \underline{6}$ d. $4 + 1 = \underline{5}$ e. $1 + 5 = \underline{6}$ f. $3 + 3 = \underline{6}$	
Tsereganyo/tiro e e atolositsweng	
Go tlhaloganya Kgopolo ya "Go feta" jaaka Tlaleletso: <ul style="list-style-type: none"> Baithuti ba ka nna ba kgaratlha go tlhaloganya go feta go golagantswe ka tlhamalalo le kakanyo ya go tlhakanya le gore e oketsa palo. Gape ba ka nna ba tlhakana tlhogo ka go tsenya la go tlhakanya (+) le dira jang kgotsa ba fitlhela go le thata go le amanya le go tlhakanya dipalo. 	
Tiriso ya Molapalo <ul style="list-style-type: none"> Baithuti bangwe ba ka nna ba seke ba tlhaloganya ka botlalo go dirisa mola wa dipalo go bala, bogolosegolo fa ba boela kwa morago go tsena ba mola fa gare ga dipalo. Kgopolo ya mola wa dipalo o o emelang dipalo tse di latelanang e ka nna ya seke tlhaloganyesega sentle. 	
Go tlhaloganya Dikarabo tsa Dipolelo: <ul style="list-style-type: none"> Baithuti ba ka nna ba mmelela go le thata go gakologelwa ditlamo tsa dipalo tse di rileng jaaka 5 le 6. Ba ka nna ba kgaratlha go gakologelwa gore dipalo tse di rileng di ka kopanngwa mmogo go bopa palo e e rileng. 	
Mathata a kopanngwa: <ul style="list-style-type: none"> Mathata a kopanngwa "oketsa go dira 6" kgotsa "oketsa go dira 7" a ka nna a bo a sa tlhaloganyesega thata. Ba ka nna ba fitlhela go le thata go tlhaloganya gore ba ka bona jang dipalo tse di tlhaelang mo dipalong tse di jaaka $5 + \underline{\quad} = 6$. 	
Go Bala Kwa Morago: <ul style="list-style-type: none"> Go balela kwa morago go tswa mo palong e e kwa godimo go ka nna kgwetlho mo baneng bangwe ba ba santseng ba itse go balela kwa pele. 	

Maano a Tsereganyo

Ditiro tsa go Dira ka Dilo Tse di Bonang:

- Dirisa dilo tse di tiileng jaaka dipadi, diboloko, kgotsa ditshamekisi go supa kgopolo ya "go feta" le go tlhakanya. Seno se ba thusa go bona ka matlho le ka mmele kafa go oketsa ka gone go oketsang palo.
- Dira gore barutwana ba dirise dilo ka mmele le go ikatisa go balela kwa pele fa ba ntse ba oketsa ntlha e le nngwe kgotsa go feta.
 - **Metshameko ya Mola wa Dipalo:** Tlhama Molapalo o mogolo fa fatshe mme o dire gore barutwana ba tlole go tswa mo palong go ya kwa go e nngwe fa ba ntse ba tlhakanya. Se se dira gore kgopolo ya Molapalo e nne le tirisano le go nna monate.
 - Go bala go boela kwa morago, e dire motshameko o ba tshwanetseng go "tlolela morago" go tswa kwa dipalolong tse di fetileng.

Pontsho ya Ditlamo tsa Dipalo:

- Dirisa ditshwantsho kgotsa diphousetara go bontsha ditlamo tsa dipalo tsa 5 le 6, go dirisa morago go bonale sentle ka fao dipalo di kopanang ka teng go fitlha go 5 le 6. Ikatise gangwe le gape ditlamo tse di kopanang ka dipina tse di monate kgotsa dikgang go thusa go tshwara ka tlhogo.
- Akaretsa go ikatisa ga kgolagano mo ditirong le mo metshamekong ya letsatsi le letsatsi, jaaka go nyalanya dipara tsa dipalo tse di tlhakanyang go fitlha go 5 kgotsa 6.

Go Dirisa Ditshwantsho le Ditori:

- Itsize mathata a a theilweng mo ditshwantshong mo barutwana ba ka bonako mo go Sekai, diapole di le tlhano, mme morago ba tsenye diapole tse dingwe go dira 6. Dirisa kopanyo e di bonolo go bontsha ka moo dipalo di golang ka teng fa go tsenngwa tse dingwe.
- Go dipalopalo tse di sa tlhaloganyesegeng, dira palo kgang e e arinang (sekao, "Go na le diapole di le 5. Re tlhoka tse dingwe di le kae go nna le diapole di le 6?") go thusa dipalo bakao.

Mokgwa wa go Balela kwa Morago:

- Tshameka metshameko e e akaretsang go bala kwa morago go dikgato tse dinnye, o dirisa dipina kgotsa ditiro tse di akaretsang motsamao wa mmele, jaaka go opa ditla kgotsa go tloatlola, go thusa barutwana go phuthologa thata ka kgopolo.

Kononetso

Tlhagisa Dipaterone:

- Botsa barutwana gore a ba lema gore dinako tse dingwe re tlhakanya dipalo tse di tshwanang mme re bone dikarabo tse di tshwanang? Sekai, $2 + 3$ ke 5, mme $4 + 1$ le yone ke 5. Fa re tlhakanya dipalo tse di farologaneng, re santse re ka bona kopanyo e e tshwanang.
- "Bona kafa go tlhakanya go ka teng palo go sekae fela ka gone, jaaka mo go $2 + 1$ kgotsa $4 + 1$. Mme fa re tlhakanya 3, e fetoga thata jaaka mo go $3 + 3$ kgotsa $4 + 3$."

Nonotsha Kgopolo ya Baleletso:

- "Go tlhakanya go kopanya dipalo go bona palo e kgolwane. Nako le nako fa re tlhakanya, re balela kwa pele."

Potso e e Faran:

- Kopa barutwana go akanya ka Sekai sa bona. O ka re, "Ke mang yo o ka mpoletelang gore go diragalang fa re tlhakanya 2 go 5? Kgotsa fa re tlhakanya 1 go 4?"

Maitlhommo a go ithuta

LB tsebe 77

- Baithuti ba tshwanetse go kgona go ntsha dipalo.

Kitsiso le Sekai	
<ul style="list-style-type: none"> Tlhama kgang e mo go yona baanelwa (jaaka diphologolo kgotsa ditshamekisi) ba latlhegelwang kgotsa ba aba dilwana. Mo go Sekai, "Fatima o ne a na le diapole di le 5, mme a naya Ricardo di le 2. Go setse di le kae?" Naya barutwana dilo tse dinnye jaaka diboloko, ditshamekisi, kgotsa dijo tse di botlhoswana. Simolola ka palo e e beilweng (sekao, diboloko di le 5) mme o ba kope go "tsaya" di le mme o ba kope go "kwa tlase ga", tloša diboloko di le 2). Go tswa foo, dira gore ba bale gore go setse di le kae. 	
Didiriswa	Mafoko/Mareo a mašwa:
<ul style="list-style-type: none"> Diapole Diboloko Ditshamekisi Dijo tse di botlhoswana 	<p>Go ntsha – go ntsha</p> <p>Mogolo go gaisa – Mogolo go gaisa</p>
Kaedi/Mokgwa/Togamano e e rileng	
<ul style="list-style-type: none"> Ruta bana go dirisa menwana go bontsha go ntsha. Go Sekai, "Fatima menwana e le 5, o bo o mena e le 2 kwa tlase. Go setse ba le kae?" Dirisa ditshwantsho kgotsa setshwantsho go emela mathata a go ntsha. Thala dibalunu di le 6, mme o botse baithuti gore go diragalang fa di le 2 di fofa. 	
Dikarabo tsa diDikarabo tsa bukathuto	
<p>Dikarabo:</p> <p>1. a. $6 - 2 = 4$ b. $7 - 3 = 4$ c. $5 - 1 = 4$ d. $8 - 2 = 6$</p>	Tsebe 77
Tseroganyo/tiro e e atolositsweng	
<p>Mathata a a Nnang teng:</p> <p>Go tlhaloganya Kgopolo ya "Kwa tlase ga":</p> <ul style="list-style-type: none"> Baithuti ba ka tlhakanya bogolo ba "kwa tlase ga" le "go feta" kgotsa ba nna le bothata jwa go bona ka leithlo la mogopolo ka fao go ntsha go diragalang gore dipalo di nne dinnye ka teng. <p>Go ntsha jaaka "Go Tlisa":</p> <ul style="list-style-type: none"> Baithuti ba ka nna ba tlhaloganye gore go ntsha go kaya go tsaya sengwe kgotsa go fokotsa palo ya dilo tse di fa pele ga bona. <p>Bothata jwa go Ntsha (-):</p> <ul style="list-style-type: none"> Baithuti ba ka fihlela go le thata go golaganya letshwao la go ntsha le kgopolo ya go tsaya, segolobogolo fa ba tlwa go tshata Duela tsa molomo ("tsaya" kgotsa "kwa tlase ga") go na le matshwao a dipalo. <p>Dikgwele le melapalo:</p> <ul style="list-style-type: none"> Baithuti ba nngwe ba ka nna le bothata jwa go tsamaya mo Molapalo, bogolo jang fa ba ise ba ikatise go bala kwa morago kgotsa go amanya kgato nngwe le nngwe le go ntsha. <p>Dipalo tsa go Otara go tswa go Tse Dikgolo go ya go Tse Dinnye:</p> <ul style="list-style-type: none"> Go tlhaloganya kgopolo ya go rulaganya dipalo, bogolosegolo go tswa mo go tse dikgolo go ya kwa go tse dinnye, go ka nna boferere mo baithuting ba ba santseng ba itse tatelano ya dipalo. <p>Go Ntsha ka Tlhaloganyo:</p> <ul style="list-style-type: none"> Baithuti ba ka kgaratlha ka go diragatsa go ntsha ka tlhaloganyo kwa ntle ga dilo tse di bonalang kgotsa Dithusapono. 	

Maano a Tsereganyo:

• Dirisa Dithusapono:

- Akaretsa didiriswa tse di dirisiwang ka boferere jaaka diboloko, dipadi, kgotsa ditshamekisi go emela dipalo ka mmele. Mo go Sekai, fa o ruta "6 – 2", bontsha diboloko di le thataro mme o tlhose di le pedi ka mmele, o tiisa kgopolo ya "go tsaya".

Go Ntsha go go Theilweng mo Kgannyeng:

- Tlhama dikgang tse mo go tsona baanelwa ba "neelanang" kgotsa ba "latlhegelwang" ke dilo. Ka sekai, "Fatima o ne a na le dibalunu di le 5, mme o ne a naya Ricardo e le 1. O na le dibalunu di le kae jaanong?"

Metshameko ya go ntsha:

- Dirisa metshameko ya tirisano e mo go yona barutwana ba ka tlosang dilwana ka mmele go ikatisa go ntsha. Metshameko e e tshwanang le Ntshana kgotsa metshameko ya boto e e tlhokang go bala kwa morago go thusa go dira gore go ntsha go kgatlhe thata.

Ditiro tsa Molapalo:

- Go tlamela ka katiso e ntsi le Molapalos. Simolola ka ditiro tse di akaretsang go bala kwa morago mo Molapalo (e ka nna ka mmele kgotsa mo pampiring) go bontsha ka fa go ntsha go dirang ka morago.
- Rotloetsa barutwana go "tlolela" morago ka go balela kwa godimo, jaaka "Simolola ka 5 tlolela morago ka diphatlha di le 2: 5; 4; 3. Karabo ke 3!"

Ruta Matshwao Kgato ka Kgato:

- Itsise letshwao la go ntsha ka nosi pele o le kopanya le dipalo. E bonwe mo kopong ka mafoko a a tshwanang le "tsaya" le "ntsha" go fitlhela barutwana ba amanya letshwao la go ntsha.

Ikatisetse go rulaganya Dipalo ka Ditshwantsho:

- Dirisa tšhate ya dipalo e e bonwang go thusa barutwana go bona kamano magareng ga dipalo le go ikatisa go baya dipalo go tswa mo go tse dikgolo go ya kwa morago dinnye. O ka dirisa dipalo kgotsa dikarata tse di segilweng mme wa ba letla go rulaganya dipalo ka mmele.

Tshegetso ya Mongwe ka Mongwe ya Baithuti ba go Kgaratlhang:

- Dira mmogo le barutwana ba ba kgaratlhelang go tlhaganya dikgopolo tsa go ntsha. Nolofatsa dipalo kwa tshimologong (ka sekai, ntsha 1) mme o tsegetse go tshwana ga tsone ka iketlo fa di ntse di itshepa.

Monate wa go menaganya gabedi

Monate wa go menaganya gabedi!

Maitlhommo a go ithuta

- Baithuti ba tshwanetse go kgona go menaganya palo ya dilo gabedi.

Kitsiso le Sekai	
<ul style="list-style-type: none">• Tlhama kgang e e bonolo ka ga moanelwa yo o ratang go dira dilo gabedi. Sekai, "Daisy yo menaganyang" yo o nang le apole e le nngwe, mme fa a e menaganya gabedi, o bona tse pedi. Dirisa dilo tse di tloganeng jaaka ditshamekisi, diphologolo, kgotsa maungo go tshwantsha kgang.• Dirisa dipadi, diboloko, kgotsa ditshamekisi go bontsha ka mmele kgopolo ya go dira gabedi. Simolola ka selo se le sengwe, o bo o se menaganya gabedi go dira tse pedi, jalo le jalo.• Tlhama kgotsa dirisa dipina tse di bonolo tse di akaretsang go menaganya dilo gabedi jaaka "1 e menagane gabedi ke 2, 2 e menagane gabedi ke 4," jalo le jalo.	
Didiriswa	Mafoko/Mareo a mašwaga
<ul style="list-style-type: none">• Diboloko• ditshamekisi	Go menaganya ga dilo tse di dire kgolo gabedi
Kaedi/Mokgwa/Togamano e e rileng	
<ul style="list-style-type: none">• Pitikolola daese, mme palo nngwe le nngwe e e tlhagelelang, barutwana ba e menagane gabedi ka go baya palo e e tshwanang ya dipadi kgotsa ditshamekisi.	
Dikarabo tsa diDikarabo tsa bukathuto	
Dikarabo: 1. a. $4 + 4 = 8$ b. $3 + 3 = 6$ c. $2 + 2 = 4$ d. $1 + 1 = 2$ 2. a. Barutwana ba tla thala dikoloi. Timo ya barutwana le dikoloi di le $3 + 3 = 6$.	Tsebe 78

Maano a go Ruta Dikarabo tsa Maloganyo: Go Oketsa

- Dirisa dilo tse di tshwanang jaaka dipompana kgotsa diapole go bontsha palo e e okeditsweng gabedi (e.g., $2 + 2 = 4$).
- Letla ngwana a name ditlhopha tse pedi tse lekanang go tlhalosa kgopolo ya "oketsa."
- Dirisa dipapalelo tse di buang ka go oketsa (e.g., "Fa ke na le 2, ke oketsa ka 2...").
- Bontsha dinalo le mealo kgotsa ditshwantsho tse di bontshang palo le palo e e okeditsweng.
- Botlhopha tse di bulehileng tse di thusa ngwana go tlhalosa gore ke eng fa palo e okeditse gabedi.

Haloho le bokgoni jwa go Itse dipalo tsa tlhaloganyo

Maitlhommo a go ithuta

- Baithuti ba tshwanetse go kgona go gakologelwa dipalo tsa tlhaloganyo ka haloho le go gakologelwa ka bonako.

Kitsiso le Sekai	
Go dira haloho ke se se fapaaneng le go dira gabedi. A re re fa moithuti a batla go abelana palo e e lekanang ya dilo le ditsala tse pedi re bitsa seo go kgaoganyana ka haloho.	
Didiriswa	
<ul style="list-style-type: none"> Diapole dinamune 	
Kaedi/Mokgwa/Togamano e e rileng	
<ul style="list-style-type: none"> Dirisa dijo tse di jaaka diapole, dinamune kgotsa dikerekere. Bontsha bana selo se se sega kgotsa o se kgaoganyane ka dikarolo tse pedi tse di lekanang, o tlhalose gore karolo nngwe e nna e ke "haloho." Dirisa ditshamekisi kgotsa diboloko mme o dire gore bana ba kgaoganyane palo e e rileng ya dilo (seka, diboloko di le 4) ka diithopha tse pedi tse di lekanang. Tlhalosa gore ba folelana setlhopha ka haloho. 	
Dikarabo tsa diDikarabo tsa bukathuto	
Dikarabo:	Tsebe 79
1. a. Thala dimonamone di le 4 mo sedikong sengwe le sengwe. Mongwe o bona dimonamone di le 4. b. Sediko sengwe le sengwe se bona diseteroberi di le 3. c. Ntlo nngwe le nngwe e bona dintša di le 2.	
2. a. haloho ya 4 ke 2 b. haloho ya 6 ke 3 c. haloho ya 8 ke 4 d. haloho ya 10 ke 5	
3. a. $4 + 3 = 7$ b. $6 + 1 = 7$ c. $5 + 2 = 7$ d. $1 + 6 = 7$ e. $3 + 4 = 7$ f. $2 + 5 = 7$ h. $3 + 3 = 6$	Tsebe 81
4. 1 ; 2 ; 4 ; 5 ; 6 ; 8 ; 9 ; 10	
5. 8 ; 7 ; 6 ; 5 ; 4 ; 3 ; 2	
6. $10 > 9$	
7. a. 6 b. 3 c. 7 d. 9 e. 2	
8. a. 8 b. 2 c. 6 d. 9 e. 3	
9. a. 0 b. 4 c. 6 d. 3 e. 0	
10. a. 8 b. 5 c. 0 d. 7 e. 1	
Tsereganyo/tiro e e atolositsweng	
Tiisa Dikgopolo tsa Botlhokwa:	
<ul style="list-style-type: none"> Gatelela gore sediko sengwe le sengwe kgotsa ntlo e bona palo e e lekanang ya dilwana. O ka botsa dipotso tse di jaaka, "Mongwe le mongwe o bona dimonamone/di-strawberry/dintša di le kae?" 	

Go tlhopha diphiri!

Maitlhommo a go ithuta

- Baithuti ba tshwanetse go kgona go bapise dilo tse dintsi kgotsa tse di mmalwa fa gare ga sete e e rileng ya dilo.

Kitsiso le Sekai	
Boeletsa mofuta wa dipopego dikhutlonnetsepa, khutlotharo, didiko.	
<ul style="list-style-type: none"> dirile Sekai 1 <ul style="list-style-type: none"> Lebelela setshwantsho se se mo bukeng ya barutwana mme go na le dikago kwa morago mme le lebatlala la ntle le le agilweng ke mosetsana ke khutlonnetsepa ka jalo popego e e tlhagelelang thata ke khutlonnetsepa. dirile Sekai 2 <ul style="list-style-type: none"> Sekai se go remelelwa thata mo tirisong ya lefoko bontsi le bonnye. Maitlhommo a thuto e e tshwanetse go nna barutwana ba tshwanetse go kgona go supa gore ke efe e e leng ntsi le e e tshwanetse go bapisa dilo kgotsa diphologolo. Balela barutwana gore re na le magotlo a le kae mo setshwantsho sa A mme o ka baya dilebole tsa go tsenya dipalo mo godimo ga ditshwantsho tsa magotlo a le 9 tse dintsi tsa dipalo mo godimo ga ditshwantsho tsa dinonyane go tswa foo re nne le magotlo a le 9 le dirile tse 2 ka jalo setshwantsho sa A se na le tse dintsi mme setshwantsho sa B di na le di le mmalwa. 	
Didiriswa	Mafoko/Mareo a
Ditshamekisi	
Kaedi/Mokgwa/Togamano e e rileng	
<ul style="list-style-type: none"> Akaretsa dibuka tsa ditshwantsho moo baanelwa ba kopanang dilwana tse "ntsi" le tse "mmalwa". Dira gore barutwana ba bale le go bapisa, ba tiisa kgopolo ka pono. Neelana ka didiriswa tse di farologaneng (diboloka, badi, ditalama) gore barutwana ba di tlhopho. Ba kope go tlhoma dilo ka "di le dintsi" le "di le mmalwa" mme o tshame mabaka a bone. 	
Dikarabo tsa diDikarabo tsa bukathuto	
<ul style="list-style-type: none"> Kopa barutwana go tshameka motshameko o le leng gore morutwana a le mongwe a ntshang dibadi di le mmalwa mme molekane le ene a dira jalo. 	
Answers to textbook activities	
Dikarabo:	Tsebe 84
<ol style="list-style-type: none"> B ke diphologolo tse dintsi. B o na le diphologolo di le mmalwa. 	
Tsereganyo/tiro e e atolositsweng	
Tiro e e atolositsweng <ul style="list-style-type: none"> Ka nako ya go tshaya kwa ntle, kopa barutwana go ela tlhoko le go kokoanya dilwana (matlhare, matlapa, malomol, tsebo, tsoo, dira gore ba tlhopho dikokoanyo tsa bone go nna "tse dintsi" kgotsa "di le mmalwa," ba tlhopho phapoganyo go ikaegilwe ka se ba se boneng. 	
Maano a Tsereganyo <ul style="list-style-type: none"> Fela jaaka dirisa dilo tse di bonalang go tlhalosa tse dintsi le tse dintsi gongwe ke tsela e e botoka ya go e ruta le go ntse jalo fa baithuti ba santse ba kgaratlha go tlhaloganya dikgopolo ba dirisa dilo tse ba di tlwaetseng mme ba botse dipotso tse di jaaka, "Ke mang yo o nang le dikerekere tse dintsi?" kgotsa "Ke mang yo o nang le dikerekere di le mmalwa?" E dire gore e amane le maitemogelo a bone a letsatsi le letsatsi. Bala dilwana tse ba di dirisang ka tlwaelo, jaaka dikherayone kgotsa diboloko, mme o bapise bontsi. Dirisa dipolelwana tse di jaaka, "Bona, o na le dikherayone di le dintsi, mme nna ke na le di le mmalwa fela." Kgaoganya phaposi ka ditlhopha mme o bapise bogolo. "Setlhopha se se na le bana ba le bantsi; setlhopha se se na le ba le mmalwa." 	
Konosetso	
Fetsa thulaganyo ka tiro e mo go yone ba ka rulaganyang kgotsa ba tlhomaganya ditshamekisi, dipopego, kgotsa dilo ka bobone, ba tiisa kgopolo ya go bapisa le go rulaganya ka pono.	

Fithhelela bontsi kgotsa mmalwa sentle

Go feta kgotsa kwa tlase ga

Maitlhommo a go ithuta

- Baithuti ba tshwanetse go kgona go bapisa dipalo gore a di feta kgotsa di kwa tlase ga.

Kitsiso le Sekai				
Kitsiso ya go feta kgotsa go le gonnye go feta e e akareditsweng mo ditlhogong tse di fetileng.				
O dirile Sekai 1				
Maikaelelo a Sekai se se dirilweng ke go bontsha ka fao dipalo di ka nnang go feta le go nna kwa tlase ga				
	1 go feta	2 go feta	1 kwa tlase ga	2 kwa tlase ga
10	11	12	9	8
19	20	21	18	17
33	34	35	32	31
48	49	50	47	46
O dirile Sekai 2				
Maikaelelo a Sekai se se dirilweng se ke go bontsha gore dilo di ka nna kwa tlase ga go feta kgotsa go nna kwa tlase ga go dirisa dipalo tse di mo ditaeseng.				
Marontho a 3 mo letaeseng la 1 le kwa tlase go marontho a 4				
Didiriswa		Marontho a Mareo a mašwa:		
• Ditaese		Ditaese - didiriswa tse di nang le dimoro/ marontho mo go tsona.		
Kaedi/Mokgwa/Togamano e e rileng				
• Mekgwa e akareditswe mo ditlhogong tse di fetileng go feta le go nna kwa tlase ga.				
Go tshwara tshedimosetso:				
• Neelana ka mefutafuta ya didiriswa tse di tšwarang jaaka ditshamekisi, diboloko, kgotsa dikonopo tse di farologaneng (mebala, popego, bogolo.)				
• Kopa bana go tlhopha dilo ka tšhomo e e kaegilwe ka popego e e rileng (mmala, popego, bogolo).				
• Tlhalosa gore go tlhopha ka gae nntina ya go tshwara tshedimosetso, mo ba beyang dilo ka ditlhopho. Fa dilo di setse di tlhophile gore ba bale gore go na le dilwana di le kae mo setlhopheng sengwe le sengwe.				
Dikarabo tsa diDikarabo tsa dikathuto				
Dikarabo:				Tsebe 86
1. a. Marontho a le 11 go marontho a le 9 b. Marontho a le 5 kwa tlase ga marontho a le 8				
2. a. Go nna mmomo a le 3 a a pinki b. Go nna mmomo a le 5 tsa mmala wa namune c. Go nna mmomo a masweu a le 6 d. Tshweu e. Pinki				
Tsereganyo/tiro e e atolositsweng				
Baithuti bangwe ba ka nna ba kgaratlha ka go tshwara tshedimosetso ka jalo Dirisa dilo di le mmalwa (seka, dintlha di le 3-5) go tila go di fekeetsa. Tlhopha dilo tse ba di bonang le go dirisana le tsone letsatsi le letsatsi, jaaka ditshamekisi, maungo, kgotsa dilwana tsa mo phaposiborutelong.				
Konosetso				
Fetsa thulaganyo ka Dikarabo mo ba ka rulaganyang kgotsa ba tlhomaganya ditshamekisi, dipopego, kgotsa dilo ka bobone, ba nonotsha kgopolo ya go bapisa le go rulaganya dilo ka pono.				

Go fopholetsa le go bala dilo

Maitlhommo a go ithuta

LB tsebe 88

- Baithuti ba tshwanetse go kgona go fopholetsa mme morago ba bale dilo.

Kitsiso le Sekai	
<p>Ka re amile go le gonnye ga go fopholetsa mo dikarolong tse di fetileng re tla nna le tebo e nngwe e e tseletseng ya go fopholetsa dilo le go di bala. Simolola ka go fopholetsa. Bontsha setshodi se se tletseng dibolo tse di mebalabala, mme o kope barutwana go fopholetsa gore go na le dibolo di le kae mo teng. A ba dire diphopholetso ba sa bale. E ka bontsha ditshodi tsa bogolo jo bo farologaneng tse di nang le dibolo go ba thusa go fopholetsa selekanyo ka matlho (seka, nkgo e nnye e e nang le dibolo di le mmalwa le nkgo e kgolo e e nang le dibolo di le dintsi). Morago ga diphopholetso, rotloetsa phaposiborutelo go abelana ka dikakanyo tsa bona buisana ka mareo a tshwanang le "go feta" le "go le gonnye" mo bokaong jwa diphopholetso tsa bone.</p>	
Didiriswa	Mafoko/Mareo a mašwa:
<ul style="list-style-type: none"> Dibolo tse dinnye tsa pin pong tse di mebalabala. 	
Kaedi/Mokgwa/Togamano e e rileng	
<p>Dikarabo ya go bala:</p> <ul style="list-style-type: none"> Bala Mmogo: Tsholola setshodi mme o bale dibolo mmogo jaaka tlela. O tshwanetse baithuti go bona pharologanyo fa gare ga go fopholetsa le go bala. Dirisa Matshwao a Dipalo: Fa o sena go bala, bontsha dikarabo tsa dipalo tse di tsamaelanang le selekanyo sa dibolo, go nonotsha go lemoga dipalo. Go Bala ka Ditlhopho Tse Dinnye: Naya baithuti ditlhopho tse dinnye tsa dibolo gore ba ipalele, go letla ngwana mongwe le mongwe go ikatisa ka bongwe kgotsa ka bobedi. 	
Dikarabo tsa diDikarabo tsa bukathuto	
<p>Dikarabo:</p> <ol style="list-style-type: none"> <ol style="list-style-type: none"> Phokotso ke 8-11 Phokotso ke 6-11 Phokotso ke 8-12 Mo go a re na le dilo di le 9. Mo go b re na le dilo di le 7. Mo go c re na le dilo di le 10. Tlholo dikarabo tsa barutwana. 	Tsebe 88
Tsereganyo/tiro e e atlesegang	
<ul style="list-style-type: none"> Kgaoganyana Thulo: Tsepamisana mogopolo mo go baleng kgotsa mo go fopholetseng pele, e seng ka bobedi ka nako e le nngwe. Simolola ka go bala ditlhopho tse dinnye tsa dibolo (seka, 1 go ya go 5) pele o fetela kwa diseteng tse dikgolo. Koketsego: Simolola ka dibolo di le 2-3 mme o oketse selekanyo fa go itshepa ga bone go ntse go gola. Go Kgaoganyana go Kgaoganyana ka Ditlhopho: Rotloetsa barutwana go tilhaola dibolo ka ditlhopho ka mmala kgotsa mogopolo pele ga ba fopholetsa kgotsa ba bala. Seno se ba thusa go bona ka leitho la mogopolo disete tse dinnye go tloga setlhopho se segolo. Diforeimeng tsa Lesome kgotsa Dikhathone tsa Mae: Baya dibolo mo diforeimeng tse di lesome kgotsa dikhathone tsa mae go thusa barutwana go bona disete tsa 5 kgotsa 10, go dira gore go nne bonolo go fopholetsa kgotsa go bala. 	
Konosetso	
<ul style="list-style-type: none"> Boeletsa Dikarabo: Gakolola barutwana gore go fopholetsa ke tsela ya go fopholetsa gore go na le dilo di le kae mo setlhopheng, mme go bala go thusa go tlhola gore a phopholetso ya bona e ne e le gaufi. Gatelela gore go siame fa phopholetso ya bone e ne e sa siama sentle ka gone go fopholetsa go raya go fopholetsa sentle. Bapisa Diphopholetso: Rotloetsa barutwana go buisana ka diphopholetso tsa bona le moithutimmo go le go abelana dikarabo tsa bona. Seno se ka ba thusa go bona dipono tse di farologaneng le go tlhaloganya gore diphopholetso di ka farologana. 	

Lefatshe la go Tlhakanya le go Ntsha

Dilwana tsa go ithuta:

LB tsebe 90

- Baithuti ba tshwanetse go kgona go tlhakanya le go ntsha ba dirisa dilo.

Kitsiso le Sekai	
<p>Itsise setlhogo jaaka mo ditlhogong tse di fetileng ka dilo tse di tshwanang le dipadi le ka Sekai se se dirilweng se se dirisang dipensele le dilo tse dingwe. Buisetsa bana kgang, o gatelela karolo e mo go yona Ben le Jerry ba buang ka go dirisa dikhutlonnetsepa le ka fa ba okeditseng le go tlosa dikhutlonnetsepa ka teng. Ditsa ditshwantsho jaaka dikhutlonnetsepa tsa pampiri tse di mebalabala go emela kgang. Tlhalosa go ntsha mafoko a bonolo jaaka "go tsaya."</p> <p>O dirile Sekai O na le na le dipensele di le 10. O aba 5. O setse ka dipensele di le kae? Karabo Go aba dipensele di le 5 go raya go ntsha dipensele di le 5.</p>	
Didiriswa	Mafoko/Mareo a mašwano
Dipensele Diseteroberi	Botlhe- Sengwe se se fetileng
Kaedi/Mokgwa/Togamano e e rileng	
<ul style="list-style-type: none"> Latela mokgwa le leano le le tshwanang go tswa mo ditlhogong tse di fetileng. 	
Dikarabo tsa diDikarabo tsa bukathuto	
<p>Dikarabo:</p> <ol style="list-style-type: none"> $6 - 2 = 4$ ya diseteroberi Mae a le $5 - 1 = 4$ $6 - 2 =$ dikopi di le 4 	Tsebe 90
Tseroganyo/tiro e e atolositsweng	
Tseroganyo e tla tshwana le ditlhogo tse di fetileng tse di tlotlang ka tlaleletso ka ga dilo.	
Konosetso	
<p>Boeletsa kgang: "Gompieno re ithutile ka go dirisa Ben le Jerry ba dirisa dikhutlonnetsepa go tshameka ka dipalo. Ba ne ba baya dipoleiti tsa bone mo dikhutlonnetsepeng dingwe mme morago ga moo ba bala gore go setse di le kae. Ba ithutile gore go tlhakanya go raya go kopanya dilo, mme go ntsha go raya go tsaya dilo."</p> <ul style="list-style-type: none"> Tlhaloso e e Bonolo: "Fa re tlhakanya, re dira gore dipalo di nne dikgolo ka go kopanya dilo tse dintsi. Fa re ntsha, re dira gore dipalo di nne dinnye ka go tlosa dingwe." 	

Go abelana le go tlhoma ditlhopha

Maitlhommo a go ithuta

- Baithuti ba tshwanetse go kgona go tlhaloganya gore go abelana go dira jang go isa kwa masaleleng.

Kitsiso le Sekai	
<ul style="list-style-type: none"> Dirisa dilo tse dinnye jaaka dikonopo kgotsa diboloko. Naya ngwana mongwe le mongwe letsogo le le tletseng la (sekao, dikonopo di le 10) mme o ba kope go abelana ka go lekana le ditsala tsa bona (sekao, ditsala di le 3). A ba abele dilo, mme fa ba sa kgone go aba tse dingwe ka go lekana, ba tlhalose gore dilo tse di tshwanetseng ke "masaledi" kgotsa masalela. 	
<p>O dirile Sekai Khaya o na le dikerese di le 5 tse a batlang go di abelana le ditsala tse 2, mo tsala nngwe le nngwe e tshwanetseng go fitlhela palo e elekanang ya dikerese.</p> <ol style="list-style-type: none"> Tsala nngwe le nngwe e tla bona dikerese di le kae ka go lekana? Go tla sala dikerese di le kae? 	
<p>Dikarabo Tsala nngwe le nngwe e tla bona dikerese di le 2 ka go lekana ka gonne go tshwanetseng go abelana. Ka gonne tsala nngwe le nngwe e bona dikerese di le 2 ka go lekana, go sala dikerese e le 1 mme seo se bidiwa masalela.</p>	
Didiriswa	Mafoko/Mareo a maswa:
<ul style="list-style-type: none"> dikonopo diboloko 	<ul style="list-style-type: none"> Masalela- Sengwe se setseng
Kaedi/Mokgwa/Togamano e e rileng	
<p>Go ruta go abelana ka go lekana le masalela go tshwana ba keretšhe, go a thusa go dirisa dilo tse di tiileng le ditiragalo tse di bonolo tse ba ka amang ngwana. Mokgwa o o ka o dirisang ke ono.</p> <p>Simolola ka go bolela kgang kgotsa go tlhoma tiragalo. Go Sekai, re: "Re na le dikuku di le 7 le ditsala di le 3. Re batla go abelana dikuku ka go lekana. A tshwane gore a tsala nngwe le nngwe e ka bona palo e e lekanang ya dikuku."</p>	
Dikarabo tsa diDikarabo tsa dikamuto	
<ol style="list-style-type: none"> <ol style="list-style-type: none"> Tsala nngwe le nngwe e tla bona diratsuru di le 3. Ratsuru e le 1 e e setseng. Dipensele di le 1 - Pensele e le 1 = dipensele di le 2. 	
Tsereganyo/motshameko e e bonolo e e akaretsang	
<p>Tlhamo motshameko e e bonolo e e akaretsang go abelana ka go lekana. Mo go Sekai, o ka dirisa motshameko wa bona go bona barutwana ba abang dikarolwana kgotsa dithokene mo gare ga bona mme ba supe dikarolwana tse tse di setseng.</p>	
Kononetso	
<p>Boeletsa Kgopolo ya Botlhokwa: Morutabana a ka konela ka dipolelo tse di jaaka "Gompiano, re ithutile go abelana dilo ka go lekana le ditsala. Ka dinako tse dingwe, morago ga go abelana, go na le sengwe se se setseng. Re bitsa se se setseng masalela."</p>	
<p>Dikarabo Tsebe 93</p> <ol style="list-style-type: none"> <ol style="list-style-type: none"> Mongwe le mongwe o mo fa tse tharo E le nngwe Tse pedi 	

Madi le poeletso ya go tlhakanya

Maitlhome a go ithuta

LB tsebe 94

- Baithuti ba tshwanetse go tlhaloganya gore madi a dira jang le go oketsa madi gangwe le gape.



Kitsiso le Sekai	
<p>Tlala le madi mo setlhopheng sa dipampiri tsa R10, madi a tshipi a R5 le madi a tshipi a R2 ka maungo le merogo go supa ka fa re dirisang madi ka teng le ka fa re rekang dilwana ka teng le go bona phetogo. Karolo eno e kopantswe le tlatsetso e poapoeletsang.</p> <p>Sekai se se dirilweng</p> <ol style="list-style-type: none"> O na le madi a a kana kang fa o ka tsaya madi a mabedi a R2 gabedi ka letsatsi? Fa o bona madi a dijo tsa motshegare a R 5 kwa gae letsatsi le letsatsi. <p>O tla bo o na le madi a makae ka Labone?</p> <p>Karabo 1. $R2 + R2 = R4$</p> <p>2. $R5 + R5 + R5 + R5 = R20$</p>	
Didiriswa	Mafoko/Mareo a madi
<ul style="list-style-type: none"> Madi a tshipi Dipampiri tsa Banka 	Ela tlhoko- Dipampiri tsa Banka/Madi a pampiri
Kaedi/Mokgwa/Togamano e e rileng	
<ul style="list-style-type: none"> Tlhome "lebenkele" mo phaposiborutelong ya gago mo bana ba ka bang madi a go tshameka go reka le go rekisa dilwana. Seno se ba thusa go tlhaloganya kgopolo ya madi ka tsela e e mosola, e e dirisiwang ka diatla. Dira gore baithuti ba tlhophe ditlhopho tse di farologaneng tsa madi a go tshameka mme ba di nyalanye le boleng jwa tsone. 	
Dikarabo tsa diDikarabo tsa bukathuto	
Dikarabo	Tsebe 93
<ol style="list-style-type: none"> $R5 + R5 = R10$ $R10 + R10 + R10 + R10 + R10 = R50$ 	
Tsereganyo/tiro e e atolositswang	
<p>Tsereganyo o ne a gatelela thata go tsaya madi a mmatota mo tlaseng le go dira ditiragalo tse di farologaneng tsa go reka dilwana tse di farologaneng.</p>	
Konosetso	
<p>Boeletsa Dikakanyo tsa Botlhokwa:</p> <ol style="list-style-type: none"> Go tlhakanya go tshwanang: Tlhalosa gore go tlhakanya selekanyo se se tshwanang gangwe le gape go bidiwa go tlhakanya gangwe le gape. Dirisa puo e e bonolo jaaka, "Re kopantse palo e e tshwanang makgetlo a le mantsi mo bona puo go tlhe." Madi mo motshegareng jwa Letsatsi le Letsatsi: A a mannye le maitemogelo a mmatota a botshelo, a a tshwanang le go dirisa madi a tshipi kgotsa madi a pampiri go reka dimonamone kgotsa ditshamekisi. Ba gapolole gore re ka bala madi ka go tlhakanya madi a a tshwanang kgapetsakgapetsa. 	


Go Ribolola Dipaterone le Dipopego

Maitlhommo a go ithuta

LB tsebe 96

- Baithuti ba tshwanetse go tlhaloganya dipopego tsa motheo tse di ipoeletsang.

Kitsiso le Sekai	
<ul style="list-style-type: none"> Itsise kgang ya Moletlo wa Letsatsi la Matsalo la ga Diane. Dirisa dilo tsa letsatsi le letsatsi go tlhama dipaterone tse di bonolo. Go Sekai, rulaganya diboloko ka paterone (sekao, bohhibidu-botala jwa loapi-bohibidu-botala jwa loapi). <p>Bolelela barutwana fa o dira paterone, o tshwanetse go batla dipopego le mebala e e ipoeletsang mme o tsele e e tshwanang. Se se raya gore fa o na le dipopego le mebala e e boaboelediwang ka tatlano e e tshwanang, o na le dikgomaretsi tsa paterone.</p>	
<p>Sekai se se dirilweng</p> <p>Feleletsa paterone ka go tsenya dilo tse dingwe di le 3.</p> 	
<p>Karabo</p> 	
Didiriswa	Ko/Mareo a mašwa:
<ul style="list-style-type: none"> Diboloko Dibaga Ditikara 	<p>Go thibosa- Go kaya go bua ka fa selo se leng ka teng</p> <p>Dipaterone tsa Jometeri- Dilo tse ditshwaregang ka dipopego sa dipaterone.</p>
Kaedi/Mokgwa/Togamano e e ril	
<ul style="list-style-type: none"> Diboloko tsa Dipaterone: Dirisa diboloko tsa dipaterone go tlhama dipaterone tse di bonolo tsa jometeri. Rotloetsa bana go boeletsa le atolosa dipaterone. Ditalama le Dikgole: Dirisa ditlamo tsa dipopego le mebala e e farologaneng mme o dire gore bana ba itirele dipaterone tsa bone mme dikgole kgotsa mo diphepafatsing tsa dipeipi. Dipaterone tsa Dikgomaretsi: Dirisa dikgomaretsi tse di nang le dipopego tsa jometeri go tlhama dipaterone mo pampiring. Moragonyantsi bana ba ka tswelela kgotsa ba boeletsa dipaterone tseo. Dikarata tsa Dipaterone: Dirisa dikarata tse di nang le dipaterone tse di bonolo tsa jometeri. Bontsha bana dikarata tse mme o ba kope go supa le go atolosa dipaterone. Ditšhate tsa Dipaterone: Dirisa ditšhate kgotsa diphousetara tse di nang le dipaterone tse di mebalabala. Tlotla ka dipaterone le bana mme o ba kope go supa dielemente tse di ipoeletsang. 	

Dikarabo tsa diDikarabo tsa bukathuto	
<p>Dikarabo 1:</p> <p>1. a. </p> <p>Ya morago e ka nna ya bo e le kgomarelo e e oketsegileng mo go se se batlegang mo potsong</p> <p>b. • Paterone ya ntlha ke khutlotharo e e latelang ke khutlonne morago ga moo ke sediko morago ga moo e boeletsa gangwe le gape. • Paterone ya bobedi ke khutlonnetsepa, khutlotharo le khutlonne morago ga moo khutlonnetsepa e boeletsa e boeletsa. • Paterone ya boraro ke khutlonnetsepa, sediko, sekwere, khaete le khutlotharo e boeletsa gape.</p> <p>c. Karabo ya morutwana</p>	Tsebe 96
<p>Dikarabo 2:</p> <p>1. Karabo nngwe le nngwe e a amogelesega fa fela moithuti a dirisitse dipopego tse di tswang mo tswang</p> <p>2. Moithuti go tlamela</p> <p>3. A</p>	Tsebe 97
Tsereganyo/tiro e e atolositsweng	
<p>Maano a Tsereganyo: Batlisisa kwa gae gore ke dipopego le dipaterone tse di tswang mo tswang tse di tswang mo tswang ba ba kgaratlhang ba di tlwaetseng mme o kope barutwana go tla ka popego nngwe le nngwe go tswa kwa gae e e leng khutlotharo, sediko, dikhutlonnetsepa kgotsa sekwere gore ba kgone go tla dipaterone go tswa mo go se ba se tlwaetseng.</p>	
Konosetso	
<p>Fetsa ka dipotso tse di latelang tsa tirisano.</p> <p>Dipotso tse di dirisanang:</p> <ul style="list-style-type: none"> • "A go na le mongwe yo o ka mpolelelang gore dipaterone ke eng?" • Ke dipopego kgotsa mebala efe e re e batlang mo dipateroneng tsa phathi ya ga Diane?" • "A o ka supa paterone go dikologa phapang tsa dipaterone? Gongwe mo diparong tsa gago kgotsa mo ditshamekising?" 	

EXTRACT PAGES