

MOPHATO

2

BUKA YA  
MOITHUTI

# Platinum

Dikhoutu le Diroboto

Ditokelo tsothle di sireleditswe. Ga go karolo ya kgatiso e, e e ka boelediwang, ya bolokwa mo mofuteng o o ka tlagiswang gape ka ona, kgotsa ya gaswa mo sebopegeng sengwe le sengwe kgotsa ka mokgwa o o rileng (eleketeroniki, ka motšhine, ka kgatiso kgotsa ka mokgwa o mongwe o o sa dumeletsegeng) ntle le gore go bonwe tumelano e e kwadilweng fa fatshe ya mong wa ditshiamelo tse di sireleditsweng tsa bokwadi pele.

Fa o batla go reboelwa tetla ya go ka gatisa lekgetlo le lengwe gape kgotsa go dirisa karolo nngwe le nngwe ya buka eno, o kopiwa gore o ikogaganye le Setlhopho se se reboelanang ka Ditshwanelo le Tetla mo go 021 532 6000 kgotsa ka go romela imeile mo go rightsgranting@mml.co.za. Go begela tshenyo ya ditshwanelo tsa mokwadi, tsweetswee romela imeili go copyright@mml.co.za.

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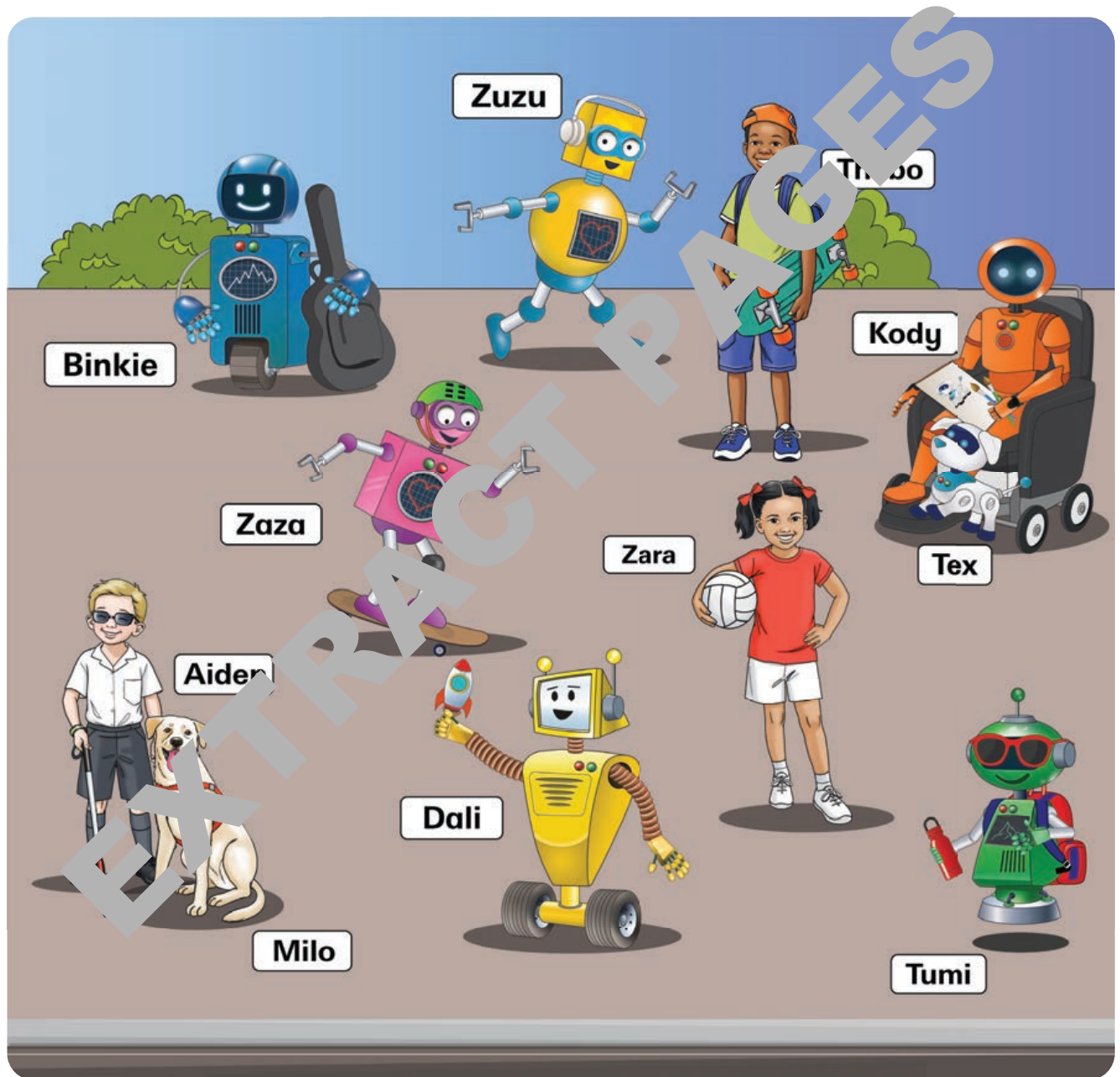
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# Amogelesega

Morutwana yo o rategang,

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



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

Itumelele go ithuta.

# Tsela ya go dirisa bukantswe e

Fa o bona	Go raya gore:
	nako ya go dira le tsala ya me
	nako ya go dira jaaka sethopho
	nako ya go dirisa diatlhase ya me le boboko jwa me
	nako ya go thalala go kwala
	nako ya go bua ka dilo
	nako ya go dirisa boboko le monagano
	ke nako ya go tsamaisa mmele wa me
	nako ya go kwala khoutu
	go kwala khoutu ka go tshameka

# Go tshaloganya kgopolo ya ntlha

## Dira rokete

O tla tlhoka:

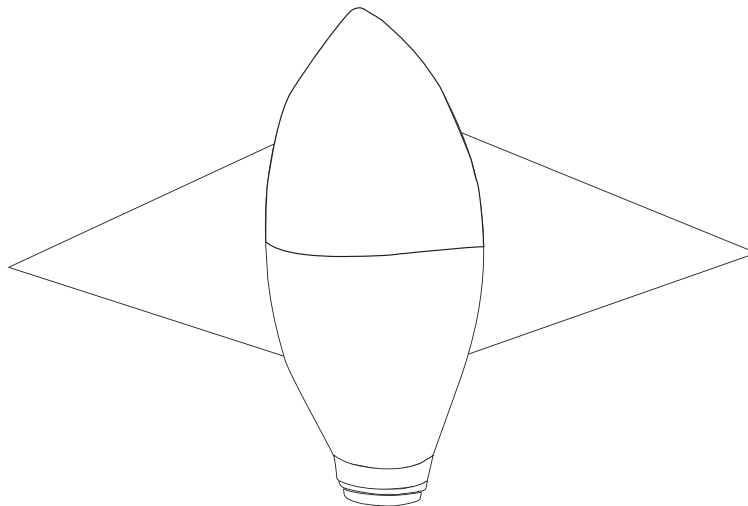
- Dithupa tsa X 4 (tse e ka nna dithupa tsa go goga tse di bentilweng, dithaka, khateboto kgotsa pampiri e e mebalabala e e bentilweng go nna methalo.

Sengwe le sengwe se se bonolo le se se leng teng nngwe wena.

- bohibidu e le 1
- namune e le 1
- botala jwa legodimo e le 1
- serolwana se le 1
- sekgomaretsi

## Go dira rokete ya gagano.

- Latedisa rokete.
- Sega rokete e e latetse bentilweng.
- Tshasa rokete ya gagano mmala.
  - Kwa gohibidu – bohibidu
  - Kwa tlhaka – botala jwa legodimo.
  - Kwa bentilweng – mmala wa namune.
  - Kwa bentilweng – bosetlha.
- Kgomaretsi.



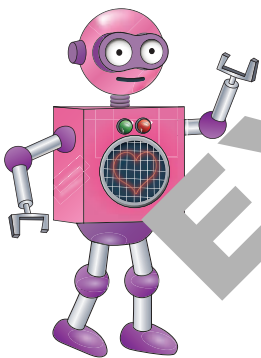
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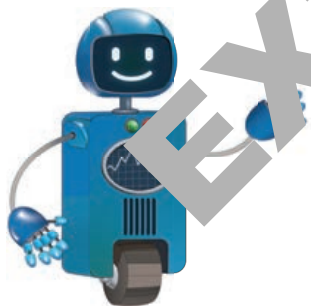
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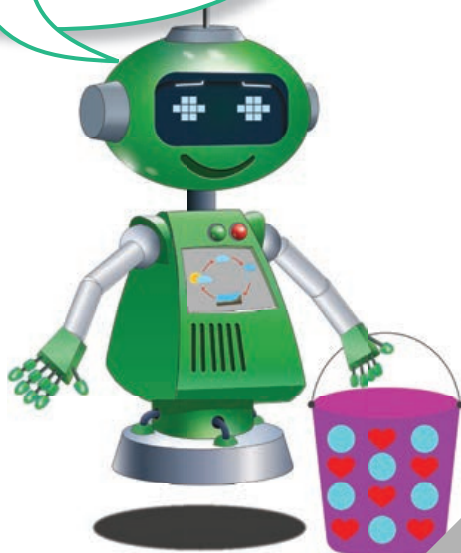
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**EXTRACT PAGES**

Re tsaya kae metsi a go tlatsa matamo a rona?



Re bona metsi a rona mo puleng.



Ga re a tshwanela go senyua metsi. Re tshwanetse go somarela metsi gongwe le gongwe le wa le ka kgonang teng.

## A re tshole

Go naana ka tsela ya go diriša dikhomphutha le fao arola bothata ka dikgato tše dinyenyane, go fithelela mekgwa le go tlhama leano la go bo rarabolola. E na le dikgopolo tse nne tse kgolo.

Tlwaelo ya letsatsi le letsatsi ya go ipaakanyetsa sekolo.



1. Baya ditshwantsho ka tatelano e siameng.
2. Leba setshwantsho b. Bua ka dikgato tsa go tlhapa meno.
3. Lebelela tatelano ya ditshwantsho.



- a. Bua ka se o tlhokang go se dira Difitholo.
- b. Lebelela tatelano ya ditshwantsho.

## Tiro 1



Leba ditshwantsho tseno. Tlotla ka dipotso tseno le molekane wa gago.

1. Ke dinomoro dife tse di mo setshwantshong tseno tse di bontshang modikologo wa metsi?
2. Ke ditshwantsho dife tse pedi tse di a tshwaneng?
3. Tatelano e e siameng ya ditshwantsho tseno ke efe? Tlhalosa gore ke naha naha ya eng.

Go somarela metsi



1. Re tshwanetse go wena pompo.

Pula



2. Go nna le marothodi a pula mo marung. Go tswa foo pula e simolola go na.

Go fufulelwa



3. Dimela di ntsha mouwane wa metsi mo moweng ka mathhare a tsone.

Go metsifala



4. Mouwane wa metsi o dira maru.

Go kgobokanya metsi a pula



5. Re kgobokanya metsi a pula go nosetsa dimela.

Go mowafala



6. Letsatsi le fisa metsi mme a bo a mowafala mo moweng.



## Tiro 2



Diroboto di rulagantswe go latela ditaelo.

### O tllile go tlhoka:

- sekei kgotsa phensele e e bogale
- didiko tse pedi tse dikgolo mo nani e nngwe ya A4
- phini e le nngwe e e kgaoga tswang
- sekere
- dikherayone tsa phensele

**Kgato 1:** Mena didiko ka nobedi go nna dikarolo di le nne jaaka pitsa.



**Kgato 2:** Tsa a s' diko se le sengwe mme o sege se se le sengwe sa pitsa.



**Kgato 3:** Thala dikgato tsa ka fao metsi a tsamayang ka teng mo sedikong ka dikarolo tsotlhe tsa ona. Netefatsa gore di rulagantswe sentle: mowafalo, go fufulela, go na ga pula le go kokoanya.



## Tiro 2

**Kgato 4:** Dira phatlha mo gare ga didiko tsoopedi.



**Kgato 5:** Baya didiko mo go tse dingwe mme o dirise pini ya mathe go di tshwaraganng. Dikolosa mme o tshwara ka modikologo wa meter.



**Tlhatlhoa leswana la gago la mokgokolosa wa metsi.**

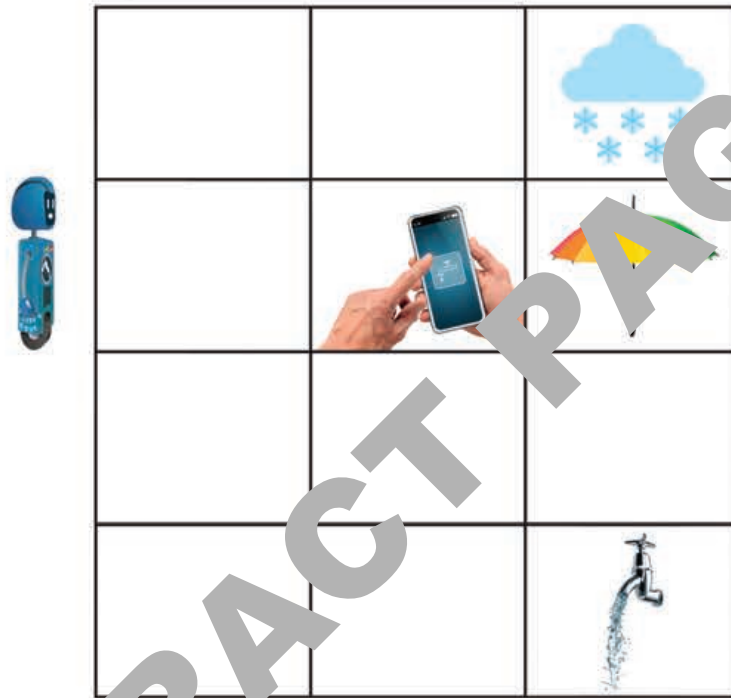
Suthisa sepe se se fa godimo go bona setshwa tsho sengwe le sengwe sa mokgologo wa metsi.

1. A mokgokolosa o retologa bonolo?
2. A ditshwantsho di na le mebalabala?
3. A ditshwantsho di ka tatelano e e siameng?
4. Ke eng se o ka se tokafatsang?



### Tiro 3

Tlhama sete ya ditaelo go dira gore Binkie a ye kwa pompong.



Dirisa ditaelo tse go tsenya dikhoutu:



O ikutlwa jang ka tiro eo o e dirileng?

1	2	3	4
Go leka!	Itumetse!	Motlotlo	Ee!



## A re simolole

Fa re rarabolola mathata, re batla tshedimosetso e e bothokwa mme re tshokomolose tshedimosetso e nngwe.

1. Batla dijo tse di nang le tse o sa tshwanelang go di ja fa o baakang jisa moletlo wa letsatsi la botsalo.



## Go tlhatlhamolola

Go tlhatlhamolola ke go kgaoganya dilo go nna dikarolwana tse dinnye.

Lebelela dounate.

Dounate e kgaogantswe jang?

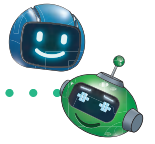


## Go lemoga paterone


Go lemoga paterone ke go bona paterone ya dilo tse di ipoeletsang ka tatelano e e tshwanang.



Tatelanamo pateroneng ke e fe?



## Tiro 1

I. Thusa Zara  go bona kuku e a e ratang.



a. Ke kuku efe e a neng a tla e ja?

b. Ke ka ntlha yang fa o ne wa tlhopha kuku eo

Tlhopha kuku e o e ratang thata.

a. E tthatlhamolole.

b. Ke dikarolo dife tse di farologaneng tse di bopang kuku ya gago?

## Tiro 2



Bua le molekane wa gago.

1. Ke kuku efe e ba neng ba e rata go tloga?
2. Thala le go tshwaya kuku ya molekane wa gago.
3. Leba setshwantsho sa molekane wa gago. A ba ne ba taka kuku ya gago sentle? E bapise le kuku e mo bukeng ya dithuto.

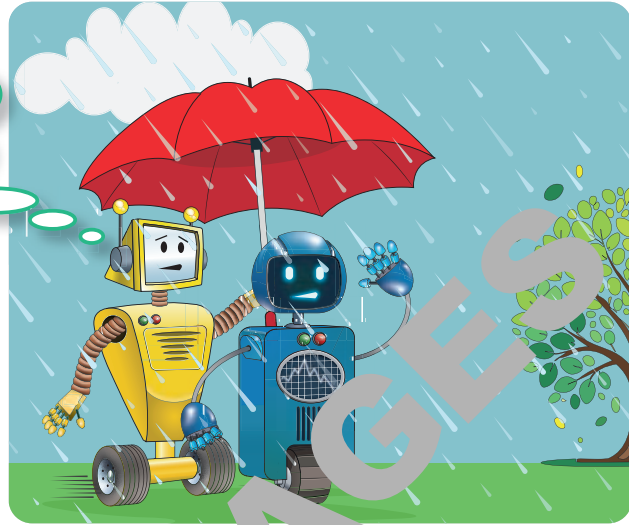
O ikutlwa jang ka tiro e o e dirile ng?

1		2		3		4	
Go leka!		Imetse!		Motlotlo!		Ee!	

# Mafelotshireletso a dira gore re nne re babalesegile e bile re omile

C6,  
C3

Maemo a bosa a a etegela, re tlhoka go ya gae!



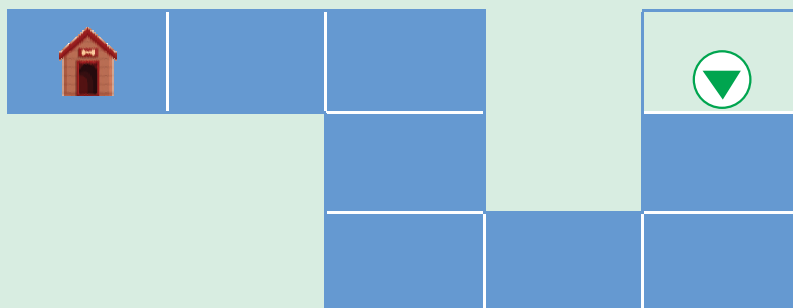
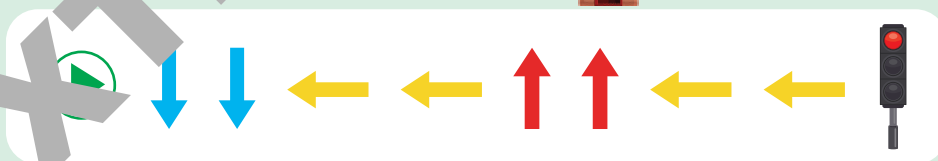
Diroboto di itlhaganelela kwa gae. Di tshela mo matlong afe?

## A re simolole

Bothatatharabololo e tshela ya ditaelo.

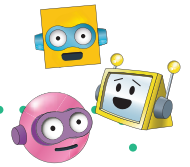
A khoutu eno e tshela Tex  gore a se ka a tsena mo puleng?

Latela khoutu nme o eme kwa  :

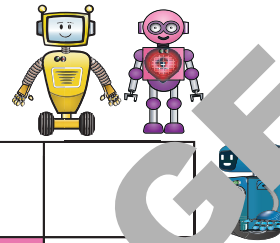




# Tiro 1

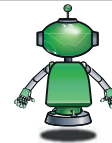


I. Roboto nngwe le nngwe e nna kae?



A				
			B	
	C			
			D	

Godimo		Moema	
Tlo		Moja	




## Tiro 1



2. Rekota dikarabo tsa gago.

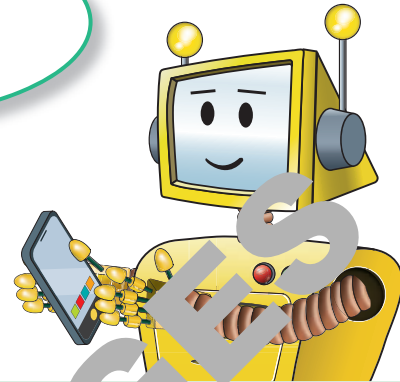
3. Bua ka khoutu.

Leba dipaterone. Ke mola ofe o e bonang dipaterone? Tlotla le molekane wa

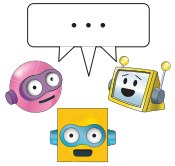


O ikutlweng ka tiro e o e dirileng?

1	2	3	4
Go leka!	Itumetse!	Motlotlo!	Ee!



## A re simolole



### Thekenoloji ke eng?

Thekenoloji e diretsa go thusa batho ka dilo tse ba di tlhokang le go rarabolola mathata a batho.

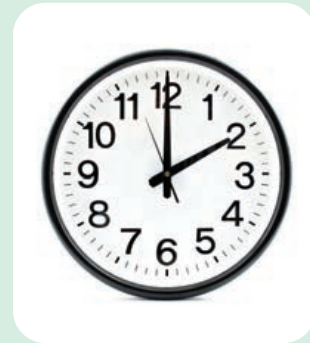
Leba dikunutu tseeno. Di tswela batho molemo jang?



Setofo



Setsidifatsi



Tshupanako

**Thekenoloji** – go dirisa didirisiwa, metšhine le kitso go rarabolola mathata le go tlhofofatsa dilo.

lefoko le  
le ntšhwa

## Thekenoloji ya tshedimosetso ke eng?

Thekenoloji ya tshedimosetso (IT) ke tiriso ya dikhomphiuta, tiragatso ya khomphiuta (khoutu) le mafaratlhatlha (ditlhopha tsa dikhomphiuta) go bina, go boloka le go abelana tshedimosetso.



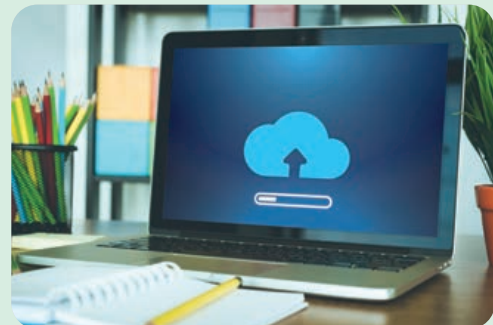
Motho yo o kwalang khoutu



Go leletsa mogala ka bidio



Go tsena mo inthaneteng



Go tsenya tshedimosetso



## Tiro 1

Nyalanya thekenoloji nngwe le nngwe le nngwe ya ditiriso tsa yona.



Aene



Lerole fafatane



Hamore



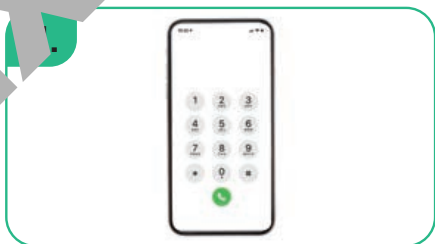
Tlhaeletsano



Roboto e phepafatsang



App e e tlhagisang ka boleng jwa mowa



Mogala wa letheka.



Selo se se dirilweng ka logong

## Tiro 2

Kwala khoutu go thusa Binkie go bona dikumo tsa thekenoloji tse di bontshiwa mo ditshwantshong a. go c



Codin	↑	Molema	←
Itase	↓	Moja	→

1. Binkie o batla go romela imeile a laletsa ditsala tsa gagwe go tla go ja borae.



## Tiro 2

2. Binkie o leba app ya maemo a bosa go bona seemo sa bosa.







3. Binkie o baya sebuelagodimo sa gagwe gore a reetse mmino. Tlhama tsela e a tsamayang ka yone.

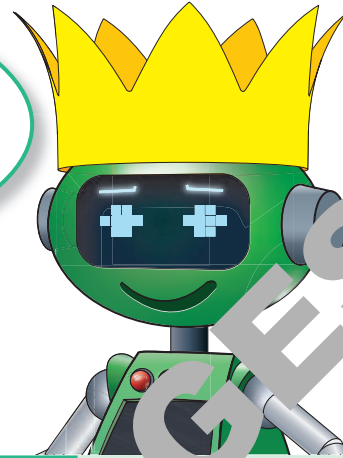


- a. Kwala khoutu.
- b. Refosana khoutu ya gago le melekane wa gago.
- c. Tlhola khoutu ya bone.
- d. Faka kago batlisisa diphoso le go tshakanya diphoso dipe fela.

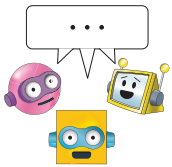
O ikuthwa jang ka tiro e o e dirileng?

<b>1</b>		<b>2</b>		<b>3</b>		<b>4</b>	
Go leka!		Itumetse!		Motlotlo!!		Ee!	

"Lona lotlhe lo botlhokwa thata mo go nna," ga bua morutabana. "Ke tlike go go bontsha gore o ka dira jang serwalo sa bogosi, ka gonne go botlhokwa gore o ikutlwe o kgethegile letsatsi le letsatsi."



## A re simolole



Batho ba ba itsegeng puo ya khomphiutha ba bidiwa bathamamisa dikhoutu.

Batho ba ba diang dikhoutu ba kwala ditaelo tsa bona ba di tsenya mo robotong. Pele ga roboto e simolola go dira, batho ba ba diang dikhoutu ba tthomamisa gore ba dira ditiro tsa bone sentle.



Letsogo la roboto

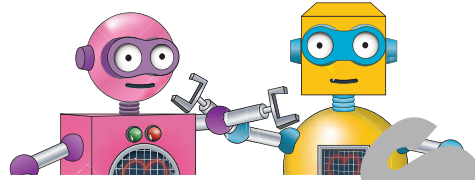


Go tlhola letsogo la roboto



## Tiro 1

### Direla tsala ya gago serwalathogo



Leka go itse gore ke eng se se ka dirang gore tsala ya gago e ikutlwe botekano.

- Ke eng fa tsala ya gago e hutsa metse?
- O ne o ka dira eng gore tsala ya gago e itumele?
- A serwalo sa 'Ke wa mofuta o o kgethegileng' se ka ba itumedisa?

Bua ka (tlhalosa) gore serwalo sa gago se se kgethegileng se tla lebega jang.

Thala setsi wa ntsho sa gore serwalo sa gago se se kgethegileng se ka lebega jang.

Leka ditelo tsa ka fa o ka dirang mofuta o le mongwe wa serwalo sa pampiri ka gone. Thala le mofuta e mongwe e mentsi.



## Tiro 1



### Ditaelo

**Kgato 1:** Tsenya mebala mo mathakoreng oo mabedi a poleiti ya pampiri ka go dirisa pente kgotsa kherayone.



**Kgato 2:** Mena pampiri ya poleiti ka bogare.



**Kgato 3:** Thala mmele meraro e e marantho.



**Kgato 4:** Tsenya mela yotlhe e le meraro. O se ka wa tloga mo losi la poleiti.



**Kgato 5:** Menolola poleiti mme o sege mo meleng e e fa gare ya mela ya momeno.



**Kgato 6:** Mena ditshi tsotlhe di butswa.



Dira serwalo sa gago se se kgethegileng. Dira ka tsela e e rulagantsweng sentle le ka tthomamo.

## Tiro 2

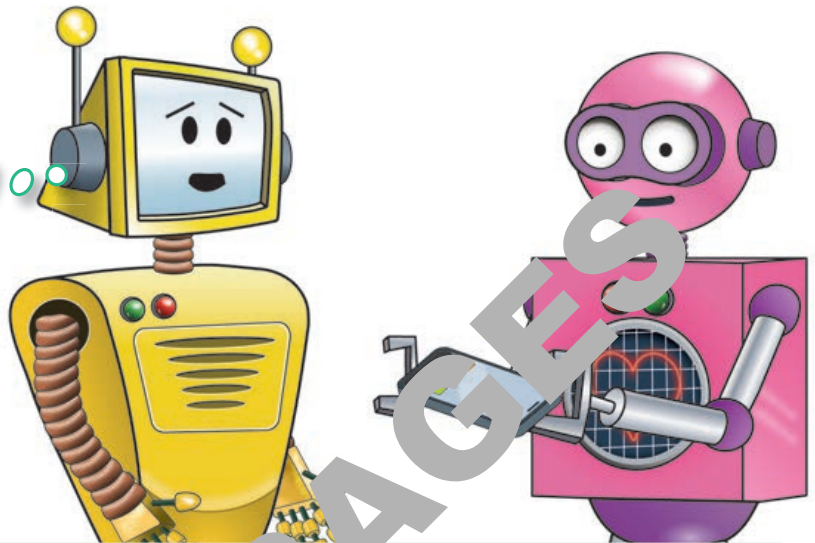


1. A serwalo seno se lekana tlhogo ya tsala ya gago?
2. E go lekana sentle jang?
3. Ke eng se o ka se tokafatsang?
4. Bua ka tsela e tsala ya gago e ikutlwang ka yone
  - a. Ba ikutlwa jang ka go amogela serwalo sa bogosi?
  - b. O ikutlwa jang ka go nea mongwe serwalo sa gago e le mpho?

O ikutlwa jang ka tiro e o e utlwang?

1		2		3		4	
Go leka!		Tlametse!		Motlotlo!!		Ee!	

Re ka thusa Dali jang gore a kgone go bua ka boitshepo fa a dirisa founo ya gagwe?



## A re simolole

Fa re dirisang le bano ba bangwe mo inthaneteng re tshwanetse go ba tshwara ka tsela e tshwanang le e re neng re tla ba tshwara go gone fa re kopana le bone. A re tloerane ka nngwe le nngwe ya maitsholo ano.



Nna maitseo le go nna pelonomi, le fa o sa dumalane.



O se ka wa mo tsena ganong. Letela nako ya gago ya go bua.



Kopa tetla.



Ipho eakanya go ikhutsa go matlho a gago a ikhutsa.



Tlho e nnela founo ya gago.

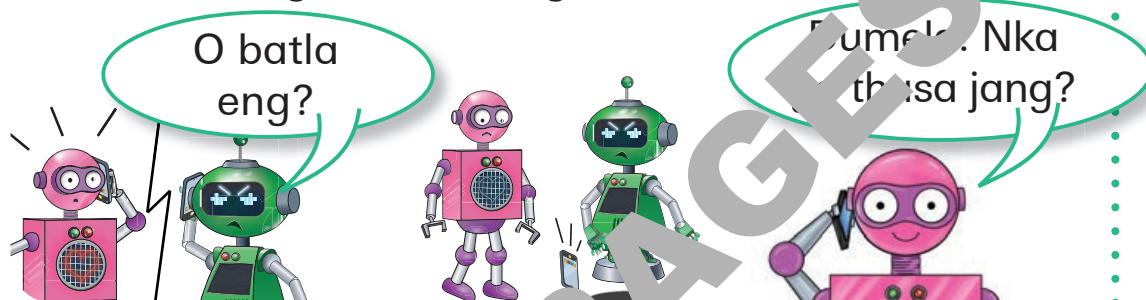


Akanya pele ga o kwala sengwe.



## Tiro 1

Tlotla le molekane wa gago ka sengwe le sengwe se a se buang mo founong.



A seno se bontsha  
maitseo?



O tshwanetse go  
araba jang?

A seno se  
bontsha maitseo?



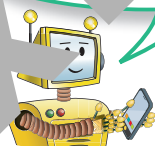
O tshwanetse go  
dira eng?

A seno se bontsha  
maitseo?



A o ka fetola  
potso?

Ke itse gore wa  
gone O nna kae?

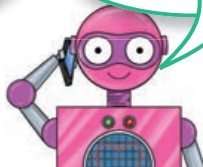


A eno ke potso e o  
tshwanetseng go bontsha maitseo?  
e araba?

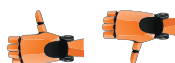


Tlhalosa gore  
goreng.

Nna le  
letsatsi le le  
monate!



A seno se  
bontsha maitseo?



A o ka fetola  
tshwaelo?

Ee, Nkoko  
ke tla ya go  
tsaya Mme  
gone  
jaanong.



A seno se bontsha  
maitseo?



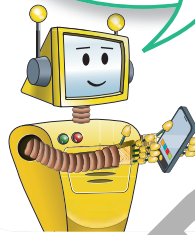
A o ka fetola  
tshwaelo?

## Tiro 1

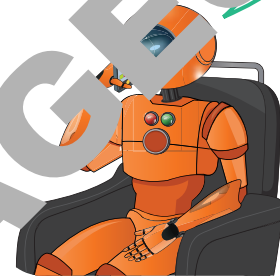
Ke go boletse, ga nkitla ke  
abelana momoro ya sephiri  
yame le wena!



Ke leboga go bo o  
leditse. Ke tla naya  
molaetsa.



Ke go boletse  
gore o seka wa  
ntshwanua.



A seno se bontsha  
maitseo?



O tshwanetse go  
dira eng?

A seno se  
bontsha maitseo?



A o ka fetola  
tshwaelo?

A seno se bontsha  
maitseo?



A o ka fetola  
tshwaelo?

### Lele

**Lele bo bolokesebile** – Ka metlha kopa mogolo gore a go neye tetla pele o dirisa sedirisiwa sa gago, founo kgotsa tablet. Ba bontshe se o se dirang le gore o bua le mang.

**Nna pelonomi** – Ka metlha nna pelonomi mo bathong ba bangwe mo inthaneteng, fela jaaka o le pelonomi mo botshelong jwa mmatota.

## Tiro 2



Lebelelela setshwantsho sengwe le sengwe.



Go itsaya setshwantsho      Go letsa megala ya bideo

1. A batho ba lefatshe la gaeno ba dirisa diselulafo mo tsa bone ka tsela eno?
2. A go siame go dira seno mo gare ga batho?
3. Fa batho e le ee, ke eng se o tsewetseng go se tsaya tsia?

O ikutlwa jang ka tiro e o e dirileng?

1 	2 	3 	4 
Go leka!	Itumetse!	Motlotlo!	Ee!