



**GAUTENG PROVINCE**  
EDUCATION  
REPUBLIC OF SOUTH AFRICA

**GGT 2030**  
GROWING GAUTENG TOGETHER

Setswana/English

# **Lenaneotokafatso la Dipalo tsa Mophato R Grade R Mathematics Improvement Programme**



**Thutano 2 • Workshop 2**  
**Bukatiro ya Batsayakarolo • Participant's Workbook**

The Grade R Mathematics and Language Improvement Project is an initiative of the **Gauteng Department of Education** and its key partner, the **Gauteng Education Development Trust**.

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The Grade R Mathematics and Language Improvement Project is managed by **JET Education Services** with UCT's **Schools Development Unit** and **Wordworks** as technical partners.

The **Schools Development Unit** (SDU) at the **University of Cape Town** (UCT) is the mathematics technical partner to the Grade R Mathematics and Language Improvement Project. The SDU is a unit within UCT's School of Education that focuses on teachers' professional development in Mathematics, Science, Literacy/Language and Life Skills from Grade R to Grade 12. The SDU offers teacher qualifications and approved UCT short courses, school-based work, materials development and research to support teaching and learning in all South African contexts.

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Porojeke ya Lenaneotokafatso la Dipalo le Puo tsa Mophato wa R ke itshimololelo ya **Lefapha la Thuto la Gauteng (Gauteng Department of Education)** mmogo le badirisani ba bona ba botlhokwa, **Gauteng Education Development Trust**.

Tlhabololo le tlhagiso ya didiriswa tsa katiso le phaposiborutelo ya Porojeke ya Lenaneotokafatso la Dipalo le Puo tsa Mophato wa R e kgontshitswe ke tshegetso ya **United States Agency for International Development** le **Zenex Foundation** ka matlole.

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**Schools Development Unit (SDU)** kwa **University of Cape Town (UCT)** ke badirisani ba setegeniki ba dipalo go Porojeke ya Lenaneotokafatso la Dipalo le Puo tsa Mophato wa R. SDU ke yuniti e e ka fa tlase ga School of Education sa UCT e e totileng tokafatso ya boporofešenale jwa barutabana mo Dipalong, Bonetetshing, Kitsokwalo/Puo le Dikgonotshelo go simolola ka Mophato R go fitlha ka Mophato 12. SDU e neelana ka thuto ka boithutedi jwa borutabana le dithutokhutshwe tse di dumelletsweng tsa UCT, tiro ya kwa sekolong, tlhagiso ya dibukana le dipatlisiso go tshegetsa go ruta le go ithuta mo makaelong otlhe a Aforikaborwa.

## DITEBOGO

Ditebogo di lebisiwa segolobogolo go:

- Bathankedi ba Lefapha la Thuto la Gauteng mo Lephateng la Kharikhulamo, Bokaedi jwa Thuto ya Barutabana le Thuto e e Kgethegileng ka ntlha ya seabe sa bona go dirisa dibukana tseno tsa rona.
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Porojeke ya Lenaneotokafatso la Dipalo tsa Mophato R le tserwe go tswa mo *R-Maths*, e phasaladitswe lwantlha ka 2017 ke Schools Development Unit, ya University of Cape Town. Tetlokhopi ya *R-Maths* e tshwerwe ke University of Cape Town.

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# **Overview**

## **Purpose**

This is the second of twelve Grade R Mathematics Improvement Programme (Maths Programme) workshops, which form part of the Gauteng Department of Education (GDE) Grade R Mathematics and Language Improvement Project.

The purpose of this workshop is to assist teachers to implement the Maths Programme in their classrooms. The focus of this workshop is Space and Shape (Geometry).

Participants will strengthen their knowledge and understanding of teaching and learning in this Content Area, prepare for teaching Space and Shape (Geometry) activities in their classrooms and reflect on the guiding principles that inform teaching.

## **Learning outcomes**

- ◆ To reflect on the implementation of Term 1 Weeks 1–2
- ◆ To explore strategies to support teaching maths in Grade R (e.g. problem solving, investigation, exploration, questioning, critical thinking, active listening, observation)
- ◆ To engage with the Maths Programme content of Term 1 Weeks 3–5 (Space and Shape (Geometry))
- ◆ To apply the Maths Programme principles in weekly planning

## **Workshop content**

- |                                         |           |
|-----------------------------------------|-----------|
| ◆ Opening and reflection                | (1 hour)  |
| ◆ Session 1: Content overview           | (1 hour)  |
| TEA                                     |           |
| ◆ Session 2: Space and Shape (Geometry) | (2 hours) |
| LUNCH                                   |           |
| ◆ Session 3: Planning for teaching      | (2 hours) |

# **Thadiso**

## **Maitlhomo**

Eno ke thutano ya bobedi ya dithutano di le lesomepedi tsa Lenaneotokafatso la Dipalo tsa Mophato R (Lenaneo la Dipalo), le e leng karolo ya Porojeke ya Lenaneotokafatso la Dipalo le Puo tsa Mophato wa R la Lefapha la Thuto la Gauteng (GDE).

Maitlhomo a thutano eno ke go thusa barutabana go diragatsa Lenaneo la Dipalo mo diphaposiborutelong tsa bona. Thutano eno e totile Boalo le Popego (Jeometeri).

Batsayakarolo ba tlaa matlafatsa kitso le go tlhaloganya ga bona ga go ruta le go rutiwa mo Karolong eno ya Diteng, ba tlaa ipaakanyetsa go ruta ditirwana tsa Boalo le Popego (Jeometeri) mo diphaposiborutelong tsa bona le go sedisia melawana ya go kaela e e kaelang go ruta.

## **Dipoelothuto**

- ◆ Go sedisia tiragatso ya Kgweditharo 1 Dibeke 1–2
- ◆ Go sedisia ditogamaano tsa go tshegetsa go ruta dipalo mo Mophato R (sk. tharabololo ya dipalo, tlhotlhomisa, tshedisiso, go botsa dipotso, go akanyetsa go go tseneletseng, go reetsa ka mathhagatlhaga, kelotlhoko)
- ◆ Go inaakanya le Diteng tsa Lenaneo la Dipalo la Kgweditharo 1 Dibeke 3–5 (Boalo le Popego (Jeometeri))

Go dirisa melawana ya Lenaneo la Dipalo mo go ipaakanyeng ga beke le beke

## **Diteng tsa thutano**

- |                                         |                 |
|-----------------------------------------|-----------------|
| ◆ Pulo le tshedisiso                    | (Ura e le 1)    |
| ◆ Karolo 1: Thadiso ya diteng           | (Ura e le 1)    |
| TEE                                     |                 |
| ◆ Karolo 2: Boalo le Popego (Jeometeri) | (Diura di le 2) |
| DIJOTSHEGARE                            |                 |
| ◆ Karolo 3: Go ithulaganyetsa go ruta   | (Diura di le 2) |

# Opening and reflection

1 hour

In your Workshop 1 *Take back to school* task you were asked to complete several activities. We would like you to spend a few minutes reflecting on your progress so far.

In your groups, think about your maths teaching over the past two weeks and how successfully you have implemented Term 1 Weeks 1–2.



## Activity 1

In your group, discuss your successes and challenges with implementing Term 1 Weeks 1–2 of the Maths Programme. Allow each person to have a turn to present their reflections.

1. Briefly describe how you organised your classroom and how you prepared for teaching these two weeks.

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2. Discuss what worked well and what you found difficult to implement. Does anyone have any helpful suggestions?

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3. Share how and when you applied the guiding principles of teaching in your daily programme Mathematics focus time?

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# Pulo le tshedisiso

Ura e le 1

Mo Thutanong 1 ya gago, mo tirwaneng ya *Tirwana e o e busetsang kwa sekolong*, o kopilwe go dira ditirwana tse dintsinyana. Re kopa gore mo metsotsong e le mmalwa o sedisise tswelelopele ya gago go fitlha gajaana.

Mo ditlhopheng tsa lona, akanya ka ga go ruta dipalo ga gago mo dibekeng tse pedi tse di fetileng le gore o kgonne go diragatsa jang Kgweditharo 1 Dibeke 1–2 ka katlego.



## Tirwana 1

Mo setlhopheng sa lona, buisanang ka ga katlego le dikgwethlo ka go diragatsa Kgweditharo 1 Dibeke 1–2 tsa Lenaneo la Dipalo. Letla gore mongwe le mongwe a nne le tšhono ya go tlhagiso ditshedisiso tsa bona.

1. Ka bokhutshwane tlhalosa gore o rulagantse jang phaposiborutelo ya gago le gore o ipaakanyeditse jang go ruta mo dibekeng tse pedi tseno.

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2. Buisanang ka gore ke eng se se diregileng sentle le gore ke eng se o boneng se le boima go diragadiwa. A go na le yo o nang le ditshikhinyo tse di ka thusang?

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3. Arogana ka gore o diragaditse jang melawana e e kaelang ya go ruta mo nakong e e tobilweng lenaneo la gago la Dipalo la letsatsi le letsatsi?

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 **Video 1**

Watch the video of the teacher-guided activity which involves a small group of learners.

What do you think the intention of the activity is? Pay special attention to how the teacher prompts the learners with questions and how she observes each learner.

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In Workshop 1 we discussed the eight guiding principles of teaching maths in Grade R. Activity 2 requires that you to match each of the eight principles with two statements that best describe it.

 **Activity 2**

1. Each group has been given an envelope containing a number of strips. Find the eight guiding principles of teaching and place them in a row on your table.
2. Discuss each of the statements and decide with which principle it fits best. Place the statement under this principle.



## **Video 1**

Lebelela video ya tirwana e e kaelwang ke morutabana e e akaretsang setlhophha se sennye sa barutwana.

O akanya gore maikaelelao a tirwana ke afe? Tota mokgwa o morutabana o gwetlhang barutwana ka dipotso ka ona le gore o ela jang morutwana mongwe le mongwe tlhoko.

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Mo Thutanong 1, re tlhalositse melawana e e kaelang ya go ruta dipalo tsa Mophato wa R e le robedi. Tirwana ya 2 e tlhoka gore o nyalanye molawana o mongwe le o mongwe wa e le robedi le dipolelo tse pedi tse di o thalosang go gaisa.



## **Tirwana 2**

1. Setlhophha sengwe le sengwe se neetswe enfolopo e e nang le dikgemetšhana tse di mmalwa. Batla melawana e e kaelang ya go ruta e le robedi mme o e beye mo moleng mo tafoleng ya gago.
2. Buisanang ka ga polelo nngwe le nngwe mme lo swetse gore ke molawana ofe o o maleba go gaisa. Baya polelo ka fa tlase ga molawana.

# Session 1: Content overview

1 hour

## Term 1 Content overview: Space and Shape (Geometry)

The content for teaching and learning in Weeks 3–5 focuses mainly on the CAPS Content Area, Space and Shape (Geometry). This content involves more than teaching learners to identify geometric shapes. Their understanding of space and shape depends to a large extent on whether they understand and can use position vocabulary to describe the location of an object (e.g. on, in, next to, behind, in front of). Learners also need to be able to see objects from different positions or views (e.g. from the top, from the bottom, turned sideways, flipped upside down).

Read the content overview for Space and Shape (Geometry) on pages 126–131 of the *Concept Guide*. It provides an overview of the Maths Programme content to be taught in each term of Grade R.

- ◆ The text in blue is the content from the Grade R CAPS for Mathematics.
- ◆ The text descriptions and content in black have been added to extend and build on CAPS.
- ◆ The topics are sequenced to show a developmental progression from one topic to another.



### Activity 3

Look at 3.1–3.4 of the content overview for Space and Shape (Geometry) on pages 126–131 of the *Concept Guide*. In your group, do the following:

1. Look at each topic and discuss the content and developmental progression across the four terms.

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# Karolo 1: Thadiso ya diteng

Ura e le 1

## Kgweditharo 1 Thadiso ya diteng: Boalo le Popego (Jeometeri)

Diteng tsa go ruta le go ithuta mo Dibekeng 3–5 di tobile thata Karoloteng ya PPKT, Boalo le Popego (Jeometeri). Diteng tseno ga se fela go ruta barutwana go tlhaola dipopego tsa sejeometeri. Go tlhaloganya popego ga bona go ikaegile thata ka gore a ba tlhaloganya le gore ba ka tlhaloganya le go ka dirisa tlotlofoko ya boemo go tlhalosa lefelo la selo (sk. mo go, mo, gaufi le, morago, fa pele ga). Barutwana gape ba tlhoka go kgona go ka bona dilo go tswa mo boemong kgotsa tebong e e farologaneng (sk. go tswa kwa godimo, go tswa kwa tlase, thepogela kwa mathhakoreng, kgonamisa).

Buisa thadiso ya diteng ka ga Boalo le Popego (Jeometeri) mo ditsebeng 126–131 tsa *Kaedi ya Mogopolو*. E neelana ka ga thadiso ya diteng tsa Lenaneo la Dipalo tse di tshwanetseng go rutiwa mo kgweditharong nngwe le nngwe ya Mophato wa R.

- ◆ Temana e e kwadilweng ka mmala o motala ke diteng tse di tswang mo PPKT ya Dipalo tsa Mophato R.
- ◆ Diteng tsa tlhaloso le diteng tse di kwadilweng ka mokwalo o montsho di tsentswe go atolosa le go agelela mo PPKT.
- ◆ Ditolhogo di latelana go bontsha tswelelopele e e golang go tswa mo setlhogong se sengwe go ya go se sengwe.



## Tirwana 3

Lebelela 3.1–3.4 tsa thadiso ya diteng tsa Boalo le Popego (Jeometeri) mo ditsebeng 126–131 tsa *Kaedi ya Mogopolو*. Mo setlhopheng sa gago, dira tse di latelang:

1. Lebelela setlhogo sengwe le sengwe mme lo buisanele diteng le tswelelopele e e tlisang tlhabololo go ralala dikgweditharo di le nne.
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2. Look at the text in black and discuss what the Maths Programme adds to the content from CAPS.

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3. Why do you think that the weighting of Space and Shape (Geometry) is the second highest of the Content Areas in Grade R?

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4. How have you approached teaching Space and Shape (Geometry) in your classroom? Give examples of lessons and activities that you have used in the past.

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2. Lebelela mokwalo o o kwadilweng ka bontsho mme lo buisane ka ga se Lenaneo la Dipalo le se tshwaelang mo diteng tsa PPKT.

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3. Ke ka ntlha yang fa o akanya gore tekanyetso ya Boalo le Popego (Jeometeri) ke ya bobedi e e kwa godimo ya Dikaroloteng mo Mophatong wa R?

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4. O inaakantse jang le go ruta Boalo le Popego (Jeometeri) mo phaposiborutelong ya gago? Neela dikao tsa dithuto le ditirwana tse o di dirisitseng mo nakong e e fetileng.

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## Session 2: Space and Shape (Geometry)

2 hours

### Spatial concepts

(30 minutes)

Learners start to learn about spatial concepts such as position, direction, orientation (different views) and perspective as they use their own bodies to explore the relationship between themselves, other people and objects.



#### Activity 4

The facilitator has set up a simple obstacle course. With a partner take turns to guide each other through the obstacle course. Use positional and directional language to give clear instructions.

### Using the *Poster Book* to talk about position and direction

The Maths Programme's *Poster Book* provides opportunities to use real-life contexts to explore concepts. On Poster 9 of the *Poster Book* you can see where Malusi lives in relation to other people and places in his neighbourhood. This poster can be used to stimulate discussion about the position of people and objects in relation to one another and to encourage learners to use and become familiar with the language that describes space, position and direction. Learners link maths to their everyday lives as they discuss and solve problems.



#### Activity 5

In your group, look at Poster 9 and discuss the following:

1. What position and direction words could you introduce to learners and encourage them to use?

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2. What other questions could you ask learners that would help them to learn about position, direction, orientation (views) and perspective?

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Refer to pages 172–177 of the *Concept Guide* to read more about space.

## Karolo 2: Boalo le Popego (Jeometeri)

Diura di le 2

### Megopoloy ya manno

(Metsotso e le 30)

Barutwana ba simolola go ithuta ka ga megopoloy ya manno jaaka boemo, kaelo, tlwaetso (melebo e e farologaneng) le kakanyo fa ba ntse ba dirisa mebele ya bona go sedisisa dikamano magareng ga bona, batho ba bangwe le dilo.



### Tirwana 4

Mofatlhos i dirile sebakakgoreletso se se bonolo. Refosana le molekane go kaelana mo sebakakgoreletsong. Dirisang puo ya boemo le ya bokaedi go neela ditaelo tse di utlwlang.

### Go bua ka ga boemo le kaelo ka go dirisa *Buka ya Diphousetara*

*Buka ya Diphousetara* ya Lenaneo la Dipalo e tlamela ka ditshono tsa go ka dirisa makedo a botshelo jwa nnene go sedisisa megopoloy. Mo Phousetareng 9 mo *Bukeng ya Diphousetara* o kgona go bona moo Malusi o nnang gona ka go mo bapisa le batho ba bangwe mo boagisaning. Phousetara e ka dirisiwa go tlhotlheletsa dipuisano ka ga boemo jwa batho le dilo ka go di bapisa le tse dingwe le go rotloetsa barutwana go dirisa le go itse puo e e tlhalosang boalo, boemo le kaelo. Barutwana ba golagana dipalo le botshelo jwa bona jwa letsatsi le letsatsi fa ba buisana le go rarabolola dipalo.



### Tirwana 5

Mo setlhopheng sa gago, lebelela Phousetara 9 mme lo buisane ka ga tse di latelang:

1. O ka thagisetsa barutwana mafoko afe a boemo le kaelo le go ba rotloetsa go a dirisa?

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2. Ke dipotso dife gape tse o ka di botsang barutwana tse di ka ba thusang go ithuta ka ga boemo, kaelo, tlwaetso (melebo) le kakanyo?

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Lebelela ditsebe 172–177 tsa *Kaedi ya Mogopoloy* go buisa go le gontsi ka ga boalo.

## Introducing shapes

(1 hour)

In Grade R learners focus on recognising, identifying and naming three-dimensional (3-D) objects and two-dimensional (2-D) shapes.

- ◆ 3-D means that an object has three dimensions: length, breadth (width) and height.
- ◆ 2-D means that a shape has two dimensions: length and breadth (width).

### Recognising, identifying and comparing three-dimensional objects

In Grade R learners explore the properties of everyday objects. They build constructions using recycled household materials such as boxes, cans, tubs, toilet roll inners, balls and so on. They investigate and describe box- and ball-shaped objects. They compare and sort objects and talk about similarities and differences.



#### Video 2

Watch the video of a teacher talking to learners who are sorting a collection of objects. Listen to how she prompts the learners to explain how they are sorting the objects and how to use the correct terms to describe each object.

Refer to pages 178–181 of the *Concept Guide* to read more about 3-D objects.

### Moving from 3-D objects to 2-D shapes

In Grade R, the focus is on the properties of objects and shapes. Learners learn to identify and describe the properties of both objects and shapes.

## Go tlhagisa dipopego

(Ura e le 1)

Mo Mophato wa R, barutwana ba lebelela go lemoga, go tlhaola le go neela maina a dilo tsa tlhakoretharo (3-D) le dibopego tsa tlhakorepedi (2-D).

- ◆ 3-D e kaya gore selo se na le matlhakore a mararo: boleele, boalo (bophara) le bogodimo.
- ◆ 2-D e kaya gore sebopego se na le matlhakore a mabedi: boleele le boalo (bophara).

### Go lemoga, go tlhaola le go bapisa dilo tsa tlhakoretharo

Barutwana ba Mophato wa R ba sedisisa diponagalo tsa dilo tse di tlwaelegileng. Ba aga dikago ka go dirisa dilo tse di dirisiwang gape tsa mo lapeng jaaka mabokoso, meteme, ditshodi, mateng a dipampiri tsa ntlwanabothusetso, dikgwele jalo le jalo. Ba tlhotlhomisa le go tlhalosa dilo tse di bopegileng jaaka mabokoso le dikgwele. Ba bapisa dilo le go di rulaganya le go bua ka ga ditshwano le dipharologano tsa tsona.

Lebelela ditsebe 178–181 tsa *Kaedi ya Ditirwana* go buisa go le gontsi ka ga dilo tsa 3-D.

### Go tswa go dilo tsa 3-D go ya go dibopego tsa 2-D

Mo Mophato wa R, go totilwe diponagalo tsa dilo le dipopego. Barutwana ba ithuta go tlhaola le go tlhalosa diponagalo tsa dilo le dipopego.



## Activity 6

Explore and describe the properties of a box.

- ◆ Place a box on a piece of paper.
- ◆ Trace around the base of the box.
- ◆ Describe the lines of your drawing.
- ◆ Name the shape you have drawn.
- ◆ How do you know it's a square/rectangle?
- ◆ How many sides does it have?
- ◆ How many corners does it have?
- ◆ What is the difference between the box and the square/rectangle?

## Recognising, describing and comparing two-dimensional shapes

Learners need to observe and discuss a variety of 2-D shapes to find out what the common properties of a particular shape are, e.g. even though all triangles may not look exactly the same, they all have three sides and three corners; all rectangles have four sides regardless of the orientation.

Use the attribute blocks on your table to explore 2-D shapes.



## Activity 7

In your group, talk about the shape of the surface of each attribute block.

- ◆ Look for a shape that has four corners.
- ◆ Use your finger to trace around the shape. What is the shape called?
- ◆ Look for a shape that has no straight sides.
- ◆ Use your finger to trace around the shape. What is the shape called?
- ◆ Look for a shape that has three sides that are exactly the same.

Refer to pages 182–189 of the *Concept Guide* to read more about 2-D shapes.



## Tirwana 6

Sedisia le go tlhalosa diponagalo tsa lebokoso.

- ◆ Baya lebokoso mo lenathwaneng la pampiri.
- ◆ Thalelela lethoko la lebokoso.
- ◆ Tlhalosa mela ya mothalo wa gago.
- ◆ Neela leina la popego e o e thadileng.
- ◆ O itse jang gore ke khutlonne/khutlonnetsepa?
- ◆ E na le matlhakore a le makae?
- ◆ E na le dikhutlo di le kae?
- ◆ Pharologano magareng ga lebokoso le khutlonne/khutlonnetsepa ke efe?

### **Go lemoga, go tlhalosa le go bapisa dibopego tsa tlhakorepedi**

Barutwana ba tlhoka go lemoga le go buisana ka ga methalethale ya dibopego tsa 2-D go tlhotlhomisa gore diponagalo tse di tshwanang tsa popego e e rileng ke dife, sk. le fa dikhutlo haro tsothe di ka tswa di sa lebege di tshwana, tsotlhe di na le matlhakore a marao le dikhutlo tse tharo; dikhutlonnetsepa tsotlhe di na le matlhakore a le mane go sa kgathalesege tlwaetso ya tsona.

Dirisa dibolokoponagalo mo tafoleng ya gago go sedisia dibopego tsa 2-D.



## Tirwana 7

Mo setlhopheng sa gago, buang ka ga popego ya boalo jwa bolokoponagalo e nngwe le e nngwe.

- ◆ Batla popego e e nang le dikhutlo tse nne.
- ◆ Dirisa monwana wa gago go thalelela popego. Popego e bidiwang?
- ◆ Batla popego e e senang matlhakore a a tlhamaletseng.
- ◆ Dirisa monwana wa gago go thalelela popego. Popego e e bidiwang?
- ◆ Batla popego e e nang le matlhakore a marao a a tshwanang gothelele!

Lebelela ditsebe 182–189 tsa *Kaedi ya Mogopolo* go buisa go le gontsi ka dipopego tsa 2-D.

## Symmetry

(30 minutes)

An object or shape has symmetry when it can be divided into two equal halves along a central line. Symmetrical patterns can be found on our bodies, in nature, in the built environment and in pictures. Line symmetry divides the shape into two identical parts. The line can be horizontal or vertical.

Refer to pages 188–191 of the *Concept Guide* to read more about symmetry.

**The practice principle:** Learners should have plenty of time to practise new skills and knowledge. When learners have regular practice in what they have already learnt, they become more competent and more confident. Learners enjoy repetition and practice. The Grade R teacher should provide repeated opportunities for learners to practise and improve new skills.

## Tekano

(Metsotso e le 30)

Selo kgotsa popego e na le tekano fa e kgona go aroganngwa ka diripa tse pedi tse di lekanang go iphaphatha le mola-gare. Dipaterone tsa tekano di ka bonwa mo mebeleng ya rona, mo tlhagong, mo tikologong e e ageletsweng le mo ditshwantshong. Tekano ya mela e arola popego ka dikarolo tse pedi tse di lekanang. Mola o ka rapalala kgotsa wa thokgama.

Lebelela ditsebe 188–191 tsa *Kaedi ya Mogopolo* go buisa go le gontsi ka tekano.

**Molawana wa tiragatso:** Barutwana ba tshwanetse ba bo ba na le nako e ntsi go ikatisetsa dikgono le kitso e ntšhwa. Fa barutwana ba na le ikatiso ya nako le nako tebang le se ba setseng ba se ithutile, ba nna le bokgoni jo bontsi le go itshepa thata. Barutwana ba itumelela poeletso le ikatiso. Morutabana wa Mophato wa R o tshwanetse go neelana ka ditšhono tse di ipoeletsang gore barutwana ba ikatise le go tokafatsa dikgono tse dišwa.

# Session 3: Planning for teaching

2 hours

## Term 1 Content Summary (Weeks 3–5)

(40 minutes)

Appendix A: Term 1 Weekly Content Summary (Weeks 3–5) outlines the main Content Area Focus for each week, the topics to be covered, the new knowledge and practise focus for each week, and suggested activities for whole class, teacher-guided and independent group work for the week.

Read the whole class, teacher-guided and workstation activities sections and complete Activity 8.



### Activity 8

Look at Appendix A: Term 1 Weekly Content Summary (Weeks 3–5). Answer the questions.

Questions	Week 3	Week 4	Week 5
What is the Content Area Focus for the week?			
What are the key concepts that learners will be learning?			
What new knowledge is introduced?			
What skills are being practised?			

# Karolo 3: Go ithulaganyetsa go ruta

Diura di le 2

## Kweditharo 1 Khutshwafatso ya Diteng (Dibeke 3–5) (Metsotso 40)

Mametlelelo A: Kgweditharo 1 Khutshwafatso ya Diteng tsa Beke le Beke (Dibeke 3–5) e thadisa Karoloteng e e Lebeletsweng ya beke le beke, ditlhogo tse di tshwanetseng go lejwa, kitso e ntšhwa le ikatiso e e lebeletsweng ya beke nngwe le nngwe, le ditirwana tse di tshikhintsweng tsa phaposiborutelo yotlhe, tirwana e e kaelwang ke morutabana le tirwana ya boikemedi ya beke.

Buisa dikarolwana tsa ditirwana tsa phaposiborutelo yotlhe, tse di kaelwang ke morutabana le tsa seteisenetiro mme o dire Tirwana 8.



### Tirwana 8

Lebelela Mametlelelo A: Kgweditharo 1 Khutshwafatso ya Diteng tsa Beke le Beke (Dibeke 3–5). Araba dipotso.

Dipotso	Beke 3	Beke 4	Beke 5
Karoloteng e e Lebeletsweng mo bekeng eno ke efe?			
Barutwana ba tlaa bo ba ithuta megopoloo efe ya botlhokwa?			
Go tlaa tlhagisiwa kitso efe e ntšhwa?			
Ke dikgono dife tse di diragadiwang mo Bekeng ya 2?			

Activity Guide: Term 1: Weeks 3, 4 and 5

(60 minutes)



### Video 3

Watch the video of learners discussing a poster.

1. Make a note of the questions and maths problems that the teacher presents to the learners during the poster discussion.

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2. Write down other questions that the teacher could have asked.

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Refer to Weeks 3, 4 and 5 in *Activity Guide: Term 1*. Complete Activity 9 in your group.



### Activity 9

1. Find Weeks 3, 4 and 5 in *Activity Guide: Term 1*. Answer the questions.
  - ◆ What is the Content Area Focus for each week?
  - ◆ What topics and new knowledge are taught in each week?
  - ◆ How does the ‘Practise’ content link to the previous week?
  - ◆ What do you need to get ready before teaching each week?
  - ◆ Read the whole class activities and small group activities.
  - ◆ Discuss in your small group how you will plan and organise your class for these three weeks of teaching.
2. Refer to Appendix A: Term 1 Weekly Content Summary (Weeks 3–5). Match the whole class and small group activities in Weeks 3, 4 and 5 of the *Activity Guide: Term 1* to the Content Summary for each week.

**Video 3**

Lebelela video ya barutwana ba buisanelo phousetara.

1. Kwala dipotso le ditirwana tsa dipalo tse morutabana o di tlhagisetsang barutwana ka nako ya go buisanelo phousetara.

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2. Kwala dipotso tse dingwe tse morutabana o ka bong a di boditse.

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Lebelela Dibeke 3, 4 le 5 mo *Kaedi ya Ditirwana: Kgweditharo 1*. Dirang Tirwana 9 mo ditlhopheng tsa lona.

**Tirwana 9**

1. Batla Dibeke 3, 4 le 5 mo *Kaeding ya Ditirwana: Kgweditharo 1*. Araba dipotso.
  - ◆ Karoloteng e e Lebeletsweng ya beke nngwe le nngwe ke efe?
  - ◆ Ke setlhogo le kitso efe e ntšhwa tse di rutiwang mo bekeng e nngwe le e nngwe?
  - ◆ Diteng tsa 'Ikatise' di golagana jang le beke e fetileng?
  - ◆ O tlhokang go ipaakanya pele ga o ruta beke nngwe le nngwe?
  - ◆ Buisa ditirwana tsa phaposiborutelo yotlhe le tsa ditlhophpha tse dinnye?
  - ◆ Mo setlhopheng sa gago se senny, buisanang gore lo tlaa rulaganya jang diphaposiborutelo tsa lona mo dibekeng tse tharo tseno tsa go ruta.
2. Lebelela Mametlelelo A: Kgweditharo 1 Khutshwafatso ya Diteng tsa Beke le Beke (Dibeke 3–5). Nyalanya ditirwana tsa phaposiborutelo yotlhe le tsa ditlhophpha tse dinnye mo Bekeng 3, 4 le 5 ya *Kaedi ya Ditirwana: Kgweditharo 1* le Khutshwafatso ya Diteng tsa Beke nngwe le nngwe.



Remember that in Grade R assessment is informal and continuous. We need to observe learners throughout the day, inside and outside the classroom. The eye icon reminds us that we need to observe the learners while they are busy, and we need to listen carefully while they are talking to us and to their peers.

The Maths Programme is designed around the rotation of small groups during a week and the teacher pays special attention to one group a day, watching and listening as the learners complete specific tasks. This time gives the teacher the opportunity to carefully observe each learner and gather information on their progress.

Look at the shaded block at the end of the teacher-guided activity: '**Check that learners are able to**'. The teacher makes a mental note of each learner and once the learners have left for the day she writes down her observations in a dedicated observation book that has space for each learner's notes.

## Closing activities (20 minutes)



### Activity 10

**Lessons learnt:** Think about what you learnt during the workshop and complete the table.

Things I am already doing that work well	New ideas that I would like to try



Gopola gore mo Mophato wa R, tlhatlhobo ke e e sa tlhomamang mme e bile ke e e tswelelang. Re tlhoka go ela barutwana botlhe tlhoko letsatsi lotlhe, mo gare le kwa ntle ga phaposiborutelo. Aekhone ya leitlho e re gopotsa gore re tlhoka go ela barutwana tlhoko fa ba ntse ba dira, le gore re tlhoka go reetsa ka kelothhoko fa ba bua le rona le balekane ba bona.

Lenaneo la Dipalo le thadilwe go lebeletswe tikologo ya ditlhophha tse dinnye mo gare ga beke mme morutabana a lebelele setlhophha se le sengwe mo letsatsing, a ba lebeletse le go ba reetsa fa barutwana ba dira ditirwana tse di rileng. Nako eno e naya morutabana tshono go ela tlhoko morutwana yo mongwe le yo mongwe ka kelothhoko le go kokoanya tshedimosetso ka ga tswelelopele ya bona.

Lebelela boloko e e ntshofaditsweng kwa bokhutlong jwa tirwana e e kaelwang ke morutabana: '**Tlhola gore a barutwana ba kgona go**'. Morutabana a tseye dintlha ka ga morutwana mongwe le mongwe mo tlhogong mme fa barutwana ba na le letsatsi ba tsamaile a kwale tse a di etseng tlhoko mo bukeng e e tlhaoletsweng go ela tlhoko e e nang le sebaka sa go ka kwala dintlha ka ga morutwana mongwe le mongwe.

## Ditirwana tsa tswalelo

(Metsotso e le 20)



### Tirwana 10

**Se o se ithutileng:** Akanya ka ga se o se ithutileng ka nako ya thutano mme o tlatse papetla.

Dilo tse ke setseng ke di dira mme di dira sentle	Dikakanyo tse dišwa tse ke ratang go di lekeletsa



### Take back to school task

1. Read the *Concept Guide* pages that were referred to during this workshop.
2. Prepare a Space and Shape (Geometry) maths area. Take a photograph of it and bring it to the next workshop.
3. Use *Activity Guide: Term 1* to plan and implement Weeks 3–5 of the Maths Programme. When planning, think about how the guiding principles will inform your planning and teaching:
  - How will you find out what learners already know and understand?

#### (level principle)

- How will you build on the prior knowledge that learners bring from home?

#### (context principle)

- How will you ensure that the planned activities are meaningful for learners?

#### (interaction principle)

4. Write a reflection of what worked well and what did not work so well. Bring your reflection notes and some examples of work that the learners did to the next workshop.

## Evaluation

Complete the Evaluation Form.



### Tirwana e o e busetsang kwa sekolong

1. Buisa ditsebe tsa *Kaedi ya Mogopolo* tse di neng di lebilwe ka nako ya thutano.
2. Baakanya lefelo la dipalo tsa Boalo le Popego (Jeometeri). Le tseye ditshwantsho mme o tle ka tsona mo thutanong e e latelang.
3. Dirisa *Kaedi ya Ditirwana: Kgweditharo 1* go ithulaganya le go diragatsa Dibeke 3–5 tsa Lenaneo la Dipalo. Fa o ipaakanya, akanya ka gore melawana e e kaelang e tlaa nna le seabe mo ithulaganyong le thutong ya gago:
  - O tlaa lemoga jang se barutwana ba setseng ba se itse le go se tlhaloganya?  
**(molawana wa maemo)**
  - O tlaa agelela jang mo kitsong ya pele e barutwana ba tlang ka yona go tswa kwa gae?  
**(molawana wa bokaelo)**
  - O tlaa netefatsa jang gore ditirwana tse di rulagantsweng di botlhokwa mo barutwaneng?  
**(molawana wa tirisano)**
4. Kwala tshedisiso ya se se dirileng sentle le gore ke eng se se sa dirang sentle. Tlaya ka dintlha tsa gago tsa tshedisiso le dikao tse dingwe tsa tiro tse barutwana ba di dirileng mo thutanong e e latelang.

### Tlhatlhobo

Tlatsa Foromo ya Tlhatlhobo.

## APPENDIX A: TERM 1 WEEKLY CONTENT SUMMARY (WEEKS 3-5)

### Term 1: Activity Plan

Week 3				
<b>CONTENT AREA:</b> SPACE AND SHAPE (GEOMETRY)				
<b>TOPIC:</b> Recognise, identify and name 3-D objects; describe, sort and compare 3-D objects (boxes and balls); position, orientation and views: in and out				
<b>INTRODUCE NEW KNOWLEDGE:</b> Counting objects 1-5, properties of boxes and balls, objects that roll or slide, position: in and out, big/small, biggest/smallest				
<b>PRACTISE:</b> Oral counting 1-5, reinforce number concept (1), sorting		Teacher-guided activity	<b>Workstation activities</b>	
<b>Whole class activities</b>			<b>Activity 1</b>	Construct objects with boxes.
Day 1	Explore properties of boxes and balls.	Counting one-to-one correspondence 1-5.	<b>Activity 2</b>	Big and small playdough balls – sorting.
Day 2	Compare sizes of boxes and balls.	Big and small game.	<b>Activity 3</b>	Paint prints with boxes or blocks.
Day 3	Explore which can slide, which can roll; big/biggest and small/smallest.	Properties of boxes and balls.	<b>Activity 4</b>	Build animal shelters for the farm animals with building blocks.
Day 4	Discuss why objects roll and slide.	Compare boxes and balls.		
Day 5	Position: in and out.	Sort objects that slide and roll.		
Week 4				
<b>CONTENT AREA:</b> SPACE AND SHAPE (GEOMETRY)				
<b>TOPIC:</b> Recognise, identify and name 2-D shapes (circle); compare 3-D objects and 2-D shapes; symmetry				
<b>INTRODUCE NEW KNOWLEDGE:</b> Circle, symmetry, introduce number 2				
<b>PRACTISE:</b> Oral counting 1-5, counting objects 1-5, number 1				
Whole class activities		Teacher-guided activity	<b>Workstation activities</b>	
Day 1	Introduce 2; number frieze story.	Naming the shape and colour of counters from the <i>Resource Kit</i> .	<b>Activity 1</b>	Playdough template – make 2.
Day 2	What is a shape? Introduce the circle.	Circle activity – properties.	<b>Activity 2</b>	Circle prints – paint and containers.
Day 3	Find circles in the classroom.	Number dot cards, pictures and symbols 1 and 2.	<b>Activity 3</b>	‘Plate’ template – cut and paste pictures of food.
Day 4	Count different body parts; explore symmetry in their own body.		<b>Activity 4</b>	Body puzzles.
Day 5	Circle (use poster) and symmetry in a picture.			

## MAMETLELELO B: KGWEDITHARO 1 KHUTSHWAFATSO YA DITENG TSA BEKE LE BEKE (DIBEKE 3-5)

### Kgweditharo 1: Thulaganyo ya Ditirwana

Beke 3				
<b>KAROLOTENG: BOALO LE POPEGO (JEOMETERI)</b>				
<b>SETLHOGO:</b> Lemoga, tlhaola le go neela maina a dilo tsa 3-D; tlhalosa, rulaganya le go bapisa dilo tsa 3-D (mabokoso le dibolo): boemo, tlwaetso le dipono: mo teng le kwa ntle				
<b>TLHAGISA KITSO E NTSHWA:</b> Go bala dilo 1-5, diponagalo tsa mabokoso le dibolo, dilo tse di kgokologang kgotsa tse di relelang, boemo: mo teng le kwa ntle, kgolo/nnye, kgolo thata/nnye thata				
<b>IKATISE:</b> Go bala dilo 1-5, go gatelela mogopolopalo (1), go rulaganya				
Ditirwana tsa phaposiborutelo yotlhe	Tirwana e e kaelwang ke morutabana	Ditirwana tsa Setišenetro		
Letsatsi 1 Sedisisa diponagalo tsa mabokoso le dikgwele.	Go bala tsamaelano ya nngwe ka nngwe 1-5. Motshameko wa kgolo le nnye.	Tirwana 1 Bopa dilo ka mabokoso.		
Letsatsi 2 Bapisa bogolo jwa mabokoso le dibolo.	Diponagalo tsa mabokoso le dikgwele.	Tirwana 2 Dibolo tse dikgolo le tse dinnye tsa tege ya go tshameka- go di rulaganya.		
Letsatsi 3 Sedisisa tse di relelang, tse di ka kgokologang; kgolo/kgolo thata le nnye/nnye thata.	Bapisa mabokoso le dikgwele. Rulaganya dilo tse di relelang le tse di kgokologang.	Tirwana 3 Penta dikgatiso ka mabokoso kgotsa diboloko.		
Letsatsi 4 Buisanang gore goreng dilo di kgokologa le go relela.		Tirwana 4 Aga masaka a diphologolo tsa polasa ka dibolokokago.		
Letsatsi 5 Boemo: mo teng le kwa ntle.				
Beke 4				
<b>KAROLOTENG: BOALO LE POPEGO (JEOMETERI)</b>				
<b>SETLHOGO:</b> Lemoga, tlhaola le go neela maina a dipopego tsa 2-D (sediko); bapisa dilo tsa 3-D le dipopego tsa 2-D; tekano				
<b>TLHAGISA KITSO E NTSHWA:</b> Sediko, tekano, tlhagisa nomore 2				
<b>IKATISE:</b> Go balela kwa godimo 1-5, go bala dilo 1-5, nomore 1				
Ditirwana tsa phaposiborutelo yotlhe	Tirwana e e kaelwang ke morutabana	Ditirwana tsa Setišenetro		
Letsatsi 1 Tlhagisa 2; kanelo ya nomorekgabisi.	Go neela leina la popego le mmala wa dibadi go tswa mo <i>Kgetsaneng ya Didiriswa</i> .	Tirwana 1 Thempoleiti ya tege ya go tshameka - dira 2.		
Letsatsi 2 Popego ke eng? Tlhagisa sediko.	Tirwana ya sediko - diponagalo.	Tirwana 2 Dikgatiso tsa sediko - pente le ditshodi.		
Letsatsi 3 Batla didiko mo phaposiborutelong.	Dikaratarontho tsa dinomore, ditshwantsho le matshwao 1 le 2.	Tirwana 3 Thempoleiti ya 'Poleite' -segolola le go kgomaretsa ditshwantsho tsa dijo.		
Letsatsi 4 Bala dirwe tse di farologaneng tsa mmele; a ba sedisise tekano mo mebeleng ya bona.		Tirwana 4 Diphazele tsa mmele.		
Letsatsi 5 Sediko (dirisa phousetara) le tekano mo setshwantshong.				

Week 5				
<b>CONTENT AREA:</b> SPACE AND SHAPE (GEOMETRY)				
<b>TOPIC:</b> Recognise, identify and name 2-D shapes (square); compare 3-D objects and 2-D shapes (box and square); direction: forwards/backwards; position: inside/outside				
<b>INTRODUCE NEW KNOWLEDGE:</b> Square, directionality (forwards/backwards), position (inside/outside)				
<b>PRACTISE:</b> Circle, oral counting 1–5, counting objects 1–5, number concept 1 and 2		<b>Teacher-guided activity</b>	<b>Workstation activities</b>	
<b>Day 1</b>	Introduce the square (vocabulary).	Oral counting/matching dot, number cards 1 and 2. Touch counting Unifix blocks, build Unifix towers. Properties of a box and a square. Feely bag (boxes and balls). 2-D square activity – tracing around a box. Position (inside/outside).	<b>Activity 1</b>	Playdough with circle and square cookie cutter to make model.
<b>Day 2</b>	Properties of the square; difference between circle and square.		<b>Activity 2</b>	Cut out squares and paste to make a picture.
<b>Day 3</b>	Word problem ( <i>Poster Book</i> ) – square; find squares in the class.		<b>Activity 3</b>	Sorting square-shaped and circle-shaped objects.
<b>Day 4</b>	Directionality (forwards and backwards).		<b>Activity 4</b>	Puzzles (minimum six pieces).
<b>Day 5</b>	Make patterns with squares, colours.			

**Beke 5**

**KAROLOTENG: BOALO LE POPEGO (JEOMETERI)**

**SETLHOGO:** Lemoga, tlhaola le go neela maina a dilo tsa 2-D (khutlonne); bapisa dilo tsa 3-D le dipopego tsa 2-D (lebokoso le khutlonne); kaelo: kwa pele/kwa morago; boemo: mo teng/kwa ntle

**TLHAGISA KITSO E NTSHWA:** Khutlonne, bokaedi (kwa pele/kwa morago), boemo (mo teng/kwa ntle)

**IKATISE:** Sediko, go balela kwa godimo 1–5, go bala dilo 1–5, mogopolopalo 1 le 2

<b>Ditirwana tsa Phaposiborutelo yotlhe</b>		<b>Tirwana e e kaelwang ke morutabana</b>	<b>Ditirwana tsa Seteišenetiro</b>	
<b>Letsatsi 1</b>	Tlhagisa khutlonne (tlotlofoko).	Go balela kwa godimo/Go nyalanya marontho, dikaratapalo 1 le 2.	<b>Tirwana 1</b>	Tege ya go tshameka le disegakuku tsa khutlonne go dira mmotlolo.
<b>Letsatsi 2</b>	Diponagalo tsa khutlonne; pharologano magareng ga sediko le khutlonne.	Kgoma o bala Dibolokokgogedi, agang ditora tsa kgogedi. Dipharologantsho tsa lebokoso le khutlonne.	<b>Tirwana 2</b>	Segolola dikhutlonne mme o di kgomaretse go dira setshwantsho.
<b>Letsatsi 3</b>	Dipalo tsa mafoko ( <i>Buka ya Diphousetara</i> ) – khutlonne; batla dikhutlonne mo phaposiborutelong.	Kgetsanakgomô (mabokoso le dikgwele). Diponagalo tsa lebokoso le khutlonne.	<b>Tirwana 3</b>	Go rulaganya dilo tse di bopegileng jaaka dikhutlonne le tse di bopegileng jaaka didiko.
<b>Letsatsi 4</b>	Bokaedi (kwa pele le kwa morago).	Tirwana ya dikhutlonne tsa 2-D– thalelela lebokoso. Boemo (mo teng/kwa ntle).	<b>Tirwana 4</b>	Diphazele (bonnye dikarolwana di le thataro).
<b>Letsatsi 5</b>	Dira dipaterone 9 ka dikhutlonne, mebala.			

## **Workshop 2 Evaluation Form**

1. Did the workshop meet your expectations?

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2. What did you learn in this workshop that helped you the most?

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3. Was there anything that you did not like or had difficulty understanding?

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4. How will you apply what you have learnt in your Grade R classroom?

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5. Do you have any suggestions for improving further workshops?

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## **Foromo ya Tlhatlhobo ya Thutano 2**

1. A thutano e kgonne go fitlhelela ditsholofelo tsa gago?

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2. Ke eng se o se ithutileng mo thutanong eno se se go thusitseng go gaisa?

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3. A go na le sengwe se o sa se ratang kgotsa se se neng se go thatafalela?

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4. O ya go diragatsa jang se o se ithutileng mo phaposiborutelong ya gago ya Mophato wa R?

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5. A go na le se o se tshikhinyang go ka thusa go tokafatsa dithutano tse di latelang?

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