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EDUCATION
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GROWING GAUTENG TOGETHER

Tshivenda/English

Mbekanyamushumo ya u Khwinifhadza Mbalo dza Gireidi ya T Grade R Mathematics Improvement Programme



Wekishopo ya 9 • Workshop 9

Bugu ya Mushumo ya Vhashelamulenzhe • Participant's Workbook

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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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Mbalo dza Gireidi ya T na Thandela ya u Khwinisa Dzinyambo ndi vhurangeli ha **Gauteng Department of Education** na vhafarakani navho vha ndeme vha, **Gauteng Education Development Trust**.

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Contents

Overview

Purpose	page 6
Learning outcomes	page 6
Workshop content	page 6

Workshop content

Opening and reflection	page 8
Session 1: Numbers, Operations and Relationships	page 12
Session 2: Numbers, Operations and Relationships (continued)	page 18
Session 3: Calculation in Grade R	page 22
Session 4: Planning for teaching	page 30
Closing activities	page 32

Appendix A: Term 3 Weekly Planning Template	page 34
Workshop 9 Evaluation Form	page 42

Zwi re ngomu

Manweledzo

Ndivho	siatari la 7
Mvelelo dza u guda	siatari la 7
Magudiswa a wekishopo	siatari la 7

Magudiswa a wekishopo

Mvulatswinga na mihumbulo	siatari la 9
Dzulo la 1: Nomboro, Tswayo na Vhushaka	siatari la 13
Dzulo la 2: Nomboro, Tswayo na Vhushaka (u bvela phanda)	siatari la 19
Dzulo la 3: U rekanya kha Gireidi ya T	siatari la 23
Dzulo la 4: U pulanela u funza	siatari la 31
Nyito dza u vala	siatari la 33

Thumetshedzo ya A: Themphuleithi ya u Pulana ya Vhege nga Vhege ya

Kotara ya 3	siatari la 35
Fomo ya u Linga ya Wekishopo ya 9	siatari la 43

Overview

Purpose

This is the ninth of twelve Grade R Mathematics Improvement 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 continue assisting teachers to implement the Maths Programme in their classrooms. Participants will have the opportunity to reflect on their implementation of the Maths Programme and discuss their planning, teaching and assessment. They will also consider learner progress, and individual developmental and learning needs. Participants will reflect on appropriate assessment strategies for capturing learner progress. The workshop explores the content for Term 3 Weeks 7–10 and its classroom implementation.

References to the Grade R Mathematics Content Areas are taken from the *Curriculum and Assessment Policy Statement (CAPS): Grade R Mathematics (Final Draft)*, 2011, Department of Basic Education, South Africa.

Learning outcomes

- ◆ To reflect on the implementation of Term 3 Weeks 4–6
- ◆ To explore play-based strategies to support teaching maths in Grade R
- ◆ To deepen understanding of number concept in the Numbers, Operations and Relationships Content Area and to link these to the implementation of maths in the Grade R classroom
- ◆ To deepen understanding of appropriate assessment in Grade R
- ◆ To reflect on challenges and find solutions to implementing the Maths Programme
- ◆ To map out the Maths Programme content to be taught in Term 3 Weeks 7–10

Workshop content

- ◆ Opening and reflection (1 hour)
 - ◆ Session 1: Numbers, Operations and Relationships (1 hour)
- TEA
- ◆ Session 2: Numbers, Operations and Relationships (continued) (1 hour)
 - ◆ Session 3: Calculation in Grade R (1 hour)
- LUNCH
- ◆ Session 4: Planning for teaching (1½ hours)
 - ◆ Closing activities (30 minutes)

Manweledzo

Ndivho

Iyi ndi wekishopo ya vhuṭahe kha dza fumimbili dza Mbekanyamushumo ya u Khwinifhadza Mbalo dza Gireidi ya Ṭ ine ya vhumba tshipiḁa tsha Muhasho wa Pfunzo wa Gauteng (GDE) Mbalo dza Gireidi ya Ṭ na Thandela ya u Khwinisa Dzinyambo.

Ndivho ya wekishopo iyi ndi u thusa vhagudisi u thoma Mbekanyamushumo ya Mbalo ngomu kiḁasirumuni dzavho. Vhashelamulenzhe vha ḁo vha na tshikhala tsha u amba nga u thoma havho Mbekanyamushumo ya Mbalo na u haseledza u pulana havho, u funza na u linga. Vha ḁo dovha hafhu vha sedza mvelaphanḁa ya vhagudi, na ṭhoḁea dza u guda na mveledziso dza mugudi nga eṭhe. Vhashelamulenzhe vha ḁo amba nga maano a u linga u itela u ṅwala mvelaphanḁa ya vhagudi. Wekishopo i tandula magudiswa a Kotara ya 3 Vhege ya 7–10 na u thomiwa hadzo

U referentsiwa kha Sia ḁa Magudiswa ḁa Mbalo dza Gireidi ya Ṭ zwo dzhiwa kha *Tshitatamennde tsha Pholisi tsha Kharikhulamu na u Linga (TSHIPHOKHALI): Mbalo dza Gireidi ya Ṭ (Mvetamveto ya u Fhedzisela)*, 2011, Muhasho wa Pfunzo ya Mutheo, Afrika Tshipembe.

Mvelelo dza u guda

- ◆ U humbula nga u thomiwa ha Kotara ya 3 Vhege ya 4–6
- ◆ U tandula maano o ḁisendekaho kha u tamba u itela u tikedza u funza mbalo kha Gireidi ya Ṭ
- ◆ U khwaṭhisedza kupfesesele kwa ḁivhaipfi ya nomboro kha Sia ḁa Magudiswa ḁa Nomboro, Tswayo na Vhushaka na u ṭumanya izwi na u thoma mbalo kiḁasini ya Gireidi ya Ṭ
- ◆ U khwaṭhisedza kupfesesele kwa u linga ho teaho kha Gireidi ya Ṭ
- ◆ U amba nga dzikhaedu na u wana thandululo dza u thoma Mbekanyamushumo ya Mbalo
- ◆ U pulana magudiswa a Mbekanyamushumo ya Mbalo ane a ḁo funzwa kha Kotara ya 3 Vhege ya 7–10

Magudiswa a wekishopo

- ◆ Mvulatswinga na mihumbulo (Awara 1)
 - ◆ Dzulo ḁa 1: Nomboro, Tswayo na Vhushaka (Awara 1)
- TIE
- ◆ Dzulo ḁa 2: Nomboro, Tswayo na Vhushaka (u bvela phanḁa) (Awara 1)
 - ◆ Dzulo ḁa 3: U rekanya kha Gireidi ya Ṭ (Awara 1)
- TSHISWITḁULO
- ◆ Dzulo ḁa 4: U pulanela u funza (Awara 1½)
 - ◆ Nyito dza u vala (Minetse ya 30)

Opening and reflection

1 hour

Reflection involves thinking and talking about your experiences and what you have learnt. Consider the Maths workshops you have attended and complete the sentences the facilitator displays.

Reflection on implementation

The *Take back to school task* from Workshop 8, required you to do the following:

- ◆ Use *Activity Guide: Term 3* to plan and implement Term 3 Weeks 4–6 of the Maths Programme.
- ◆ Write comments in the book that you use to keep track of each learner’s progress (learner observation book), and use the ‘**Check that learners are able to**’ observation list during each of the teacher-guided activities to guide your observations and comments.
- ◆ Make notes of what worked well, what did not work well and how you resolved any challenges during your implementation of Term 3 Weeks 4–6.

In the next activities make use of your learner observation book and the notes you made when reflecting on each day’s teaching.



Activity 1

1. In your group, share your successes and challenges with implementing the Maths Programme in Term 3 Weeks 4–6. Share strategies for improving teaching and learning for the challenges you identified.

2. Discuss your use of the ‘**Check that learners are able to**’ observation list (in the eye box) during each of the teacher-guided activities.
Show members of your group your learner observation book.
Select one learner and discuss your observations of this learner’s progress.

Mvulatswinga na mihumbulo

Awara 1

Mvulatswinga i katela u humbula na u amba nga tshenzhemo yavho na zwe vha guda. Kha vha sedze wekishopo dza Mbalo dze vha dzhenela vha fhedzise mafhungo ane mutshimbidzi a do tana.

U amba nga u thoma

Mushumo wa u tuwa nawo tshikoloni u bva kha Wekishopo ya 8, wo vha u tshi khou toda vha tshi ita zwi tevhelaho:

- ◆ Kha vha shumise *Nyendedzi ya Nyito: Kotara ya 3* u pulana na u thoma Kotara ya 3 Vhege ya 4–6 dza Mbekanyamushumo ya Mbalo.
- ◆ Kha vha n'wale mahumbulwa buguni ine vha i shumisa u itela u sedza mvelaphanda ya mugudi muñwe na muñwe (bugu ya u lavhelesa vhagudi), vha shumise mutevhe wa u lavhelesa wa **'Kha vha tole uri vhagudi vha a kona u'** nga tshifhinga tsha nyito dzo rangwaho phanda nga mugudisi dziñwe na dziñwe u itela u endedza u lavhelesa havho na mahumbulwa.
- ◆ Kha vha ite notsi dza zwe zwa shuma zwavhuḏi, zwe zwa si shume zwavhuḏi na uri vho tandulula hani dzikhaedu dziñwe na dziñwe nga tshifhinga tsha u thoma havho Kotara ya 3 Vhege ya 4–6.

Kha nyito dzi tevhelaho kha vha shumise bugu ya u lavhelesa vhagudi na notsi dze vha ita musi vha tshi amba nga duvha liñwe na liñwe la u funza.



Nyito ya 1

1. Tshigwadani tshavho, kha vha kovhane zwe zwa shuma zwavhuḏi na dzikhaedu musi vha tshi khou thoma Mbekanyamushumo ya Mbalo kha Kotara ya 3 Vhege ya 4–6. Kha vha kovhane maano a u khwinisa u funza na u guda a dzikhaedu dze vha topola.

2. Kha vha haseledze tshumiso yavho ya mutevhe wa u lavhelesa wa **'Kha vha tole uri vhagudi vha a kona u'** (kha ito tshibogisini) nga tshifhinga tsha nyito dzo rangwaho phanda nga mugudisi dziñwe na dziñwe.
Kha vha sumbedze mirado ya tshigwada tshavho bugu yavho ya u lavhelesa vhagudi.
Kha vha nange mugudi muthihi vha haseledze zwe vha lavhelesa nga mvelaphanda ya uyu mugudi.

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-
3. Write the main points of your discussion on flipchart paper. Report back on your discussion to the large group.

 **Video 1**

Watch the video of a teacher working with a small group of learners during the teacher-guided activity in Term 3 Week 6. The focus of our observation in this workshop is on how the teacher mediates the number activities.

Observe how the teacher works through the six activities. Notice:

- ◆ how she poses problems
 - ◆ the language she uses when asking questions
 - ◆ how she sets up each activity
 - ◆ the questions she asks to guide the learners.
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 **Activity 2**

Refer to the teacher-guided activity (pages 114–117) in Week 6 of *Activity Guide: Term 3*.

1. Discuss how you managed this teacher-guided activity with your class.
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2. Did you face any challenges? If so, how did you solve them?
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3. Kha vha n̄wale mbuno khulwane dza khaseledzo yavho kha bambiri la filipitshati. Kha vha vhigele murahu khaseledzo yavho kha tshigwada tshihulwane.



Vidiyo ya 1

Kha vha talele vidiyo ya mugudisi a tshi khou shuma na tshigwada tshituku tsha vhagudi nga tshifhinga tsha nyito yo rangwaho phanda nga mugudisi kha Kotara ya 3 Vhege ya 6. Zwo sedzeswaho nga u lavhelesa havho kha wekishopo iyi ndi uri mugudisi u lamukanya hani nyito dza nomboro.

Kha vha lavhelese uri mugudisi u shuma hani nga nyito dza rathi. Vha dzhiele nzhele:

- ◆ uri u divhadza hani thaidzo
 - ◆ luambo lune a lu shumisa musi a tshi vhudzisa mbudziso
 - ◆ uri u dzudzanya hani nyito
 - ◆ mbudziso dzine a vhudzisa u endedza vhagudi.
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Nyito ya 2

Kha vha sedze nyito ya rangwaho phanda nga mugudisi (masiatari a 114–117) kha Vhege ya 6 ya *Nyendedzi ya Nyito: Kotara ya 3*.

1. Kha vha haseledze uri vho langisa hani nyito iyi yo rangwaho phanda nga mugudisi na kilasi yavho.
-
-
-

2. Vho vhuya vha tangana na dzikhaedu? Arali zwo ralo, vho dzi tandululisa hani?
-
-
-

Session 1: Numbers, Operations and Relationships

1 hour

In previous workshops we have discussed the Numbers, Operations and Relationships Content Area. In this session we will revisit different number topics and expand our discussion to further understand number concept. We will explore the following aspects of number and connect them to classroom practice:

- ◆ oral counting
- ◆ subitising
- ◆ representing number
- ◆ counting objects
- ◆ ordinal numbers
- ◆ calculating.

Oral counting

Children learn the correct order of number words as they play, sing, and repeat rhymes.

As we know, oral counting involves saying the number words in order. Learners sequence numbers during routine oral counting activities and during transitions. Songs, rhymes and actions make oral counting fun, but the focus is on the order of the numbers. Once learners can repeat a sequence of numbers in the correct counting order, they begin to talk about the relationship between the numbers, e.g., which number is *before*, *between* or *after* another number.



Activity 3

In your group, discuss how the following activities have promoted learning the sequence of counting words in your class:

- ◆ songs and rhymes
- ◆ number washing line
- ◆ jumping tracks.

Dzulo la 1: Nomboro, Tswayo na Vhushaka Awara 1

Kha wekishopo dzo fhiraho ro haseledza nga Sia la Magudiswa la Nomboro, Tswayo na Vhushaka. Kha dzulo ili ri do dalela hafhu thero dza nomboro dzo fhambanaho nahone ri do tshandavhudza khaseledzo yashu u itela u pfesesa u ya phanda na divhaipfi ya nomboro. Ri do tandula masia a tevhelaho a nomboro na u a tumanya na ndowelo ya klasini:

- ◆ u vhalela ha mutevhetsindo
- ◆ u anganyela
- ◆ u imela nomboro
- ◆ u vhalela zwithu
- ◆ nomboro thevhekano
- ◆ u rekanya.

U vhalela ha mutevhetsindo

Vhana vha guda mutevhe wo teaho wa maipfinomboro zwenezwi vha tshi khou tamba, u imba, na u dovhola zwidade.

Vhunga ri tshi zwi divha, u vhalela ha mutevhetsindo zwi katela u bula maipfinomboro nga u tevhekana. Vhagudi vha tevhekanya nomboro nga tshifhinga tsha ndowelo ya nyito dza u vhalela ha mutevhetsindo na nga tshifhinga tsha miratho. Nyimbo, zwidade na nyito zwi ita uri u vhalela ha mutevhetsindo hu difhe, fhedzi ho sedzeswa kha mutevhe wa nomboro. Musi vhagudi vha tshi vho kona u dovhola u tevhekana ha nomboro nga mutevhe wo teaho wa u vhalela, vha thoma u amba nga vhushaka vhukati ha nomboro, sa tsumbo, ndi nomboro ifhio i re *phanda ha, vhukati ha kana i re murahu ha* inwe nomboro.



Nyito ya 3

Tshigwadani tshavho, kha vha haseledze uri nyito dzi tevhelaho dzo tshuwedza hani u guda u tevhekana ha u vhalela maipfi klasini yavho:

- ◆ nyimbo na zwidade
- ◆ muthambi wa u anea nomboro
- ◆ leri dza u fhufha.



Activity 4

Read the information on pages 138–143 and look at the diagram at the top of pages 144–145 of the *Concept Guide*.

In your group, discuss the following aspects of number:

- ◆ different ‘meanings’ of number

- ◆ different kinds of numbers

Learners in Grade R work mostly with the whole numbers 0, 1, 2, 3, 4, 5, 6, 7, 8, 9 and 10. (In Grade 1 this is extended to 20 and beyond.) We focus on counting and representing number in different ways and provide opportunities for learners to engage with numbers in different contexts.

Subitising



Activity 5

Observe the facilitator. Each time she/he flashes a card, say as quickly as you can ‘how many’ dots you see.

1. Did you count each dot one by one? Why not?

2. What do you think the benefit is of reinforcing the skill of subitising?



Nyito ya 4

Kha vha vhale mafhungo a re kha masiatari a 138–143 vha lavhelese nyolo i re n̄tha ha masiatari a 144–145 a *Nyendedzi ya Divhaipfi*.

Tshigwadani tshavho, kha vha haseledze masia a tevhelaho a nomboro:

- ◆ ‘t̄halutshedzo’ dzo fhambanaho dza nomboro

- ◆ tshakha dzo fhambanaho dza nomboro

Vhagudi vha re kha Gireidi ya T̄ vha anzela u shuma nga mbalasia 0, 1, 2, 3, 4, 5, 6, 7, 8, 9 na 10. (Kha Gireidi ya 1 izwi zwi engedzwa u ya kha 20 na u fhira.) Ri sedzesa kha u vhalela na u imela nomboro nga nd̄ila dzo fhambanaho na u netshedza vhagudi zwickhala zwa u shuma na nomboro kha nyimele dzo fhambanaho.

U anganyela



Nyito ya 5

Kha vha lavhelese mutshimbidzi. Tshifhinga tshōthe a tshi sumbedza garāta, kha vha ambe nga u t̄avhanya nga hune vha nga kona uri vha khou vhona zwithoma ‘zwingana’.

1. Vho vhalela tshithoma tshin̄we na tshin̄we nga tshithihitshithihi? Ndi ngani zwi songo ralo?

2. Vha humbula uri mbuelo ya u khwāhisedza tshikili tsha u anganyela ndi ifhio?

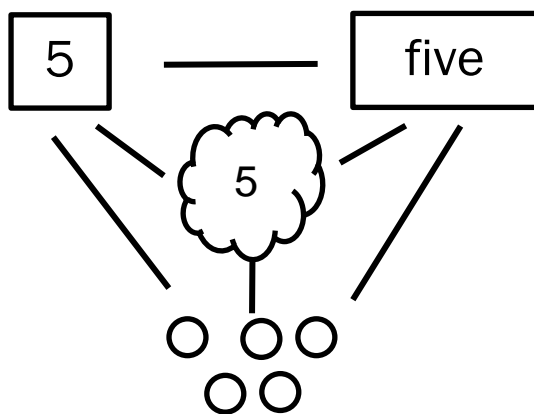
3. What activities that reinforce the ability to subitise have you used in your Term 1 and 2 maths sessions?

Refer to pages 144–147 of the *Concept Guide*.

Representing number

A number is an abstract concept. It is an idea that exists in your head. We can't see numbers, so we have to find different ways to represent (show) the number that is being referred to. Learners need to make the connection between the idea of a number, e.g., 5, and its different representations, like a collection of objects, a symbol, a word. They also need to understand that if we say, 'how many' sweets, claps, houses, birthdays, etc., five always refers to the same number of these things.

Learners need to internalise the 'how muchness' or numerosity of the number. To communicate this concept to learners, teachers need to introduce the idea using concrete objects, for example, counters. To help learners understand the concept of a number, they need to realise that numbers can be represented in different ways. Learners also need to make the connection between different representations of the number, for example an object, picture, symbol and word.



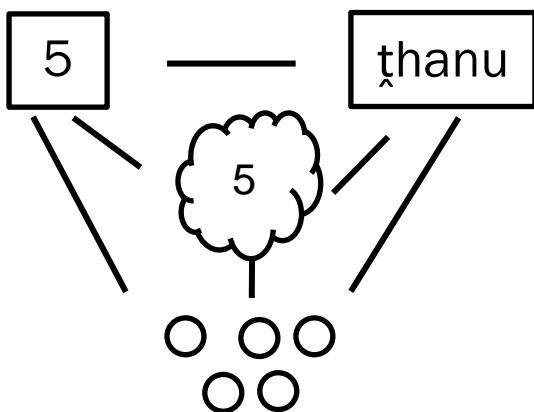
3. Ndi nyito dzifhio dzine dza khwaṭhisedza vhukoni ha u anganyela dze vha dzi shumisa kha madzulo a mbalo a Kotara ya 1 na 2 dzavho?

Kha vha sedze masiaṭari a 144–147 a *Nyendedzi ya Divhaipfi*.

U imela nomboro

Nomboro ndi divhaipfi khumbulelwa. Ndi muhumbulo une wa vha hone ṭhohoni yavho. A ri koni u vhona nomboro, zwenezwo ri fanela u wana ndila dzo fhambanaho dza u imela (u sumbedza) nomboro ine ha khou ambiwa ngayo. Vhagudi vha fanela u ita vhuṭumani vhukati ha muhumbulo wa nomboro, sa tsumbo, 5, na u imelwa hayo ho fhambanaho, u fana na khuvhanganyo ya zwithu, tshiga, ipfi. Vha fanela hafhu u pfesesa uri arali ra ri, 'ndi mangana' maḷegere, u vhanda zwanḍa, nnḍu, maḍuvha a mabebo, ngauralongauralo, ṭhanu tshifhinga tshoṭhe i amba tshivhalo tshi fanaho tsha zwithu izwi.

Vhagudi vha fanela u rwela ngomani 'uri zwithu ndi zwingana' kana u vhalela khuvhanganyo i sa fareiho na i fareaho ya nomboro. U fhirisela divhaipfi iyi kha vhagudi, vhagudisi vha fanela u divhadza muhumbulo vha tshi shumisa zwithu zwi fareaho, sa tsumbo, zwithu zwa u vhalela ngazwo. U thusa vhagudi uri vha pfesesa divhaipfi ya nomboro, vha fanela u zwi limuwa uri nomboro dzi nga imelwa nga ndila dzo fhambanaho. Vhagudi vha fanela hafhu u ita vhuṭumani vhukati ha u imela nomboro ho fhambanaho, sa tsumbo, tshithu, tshifanyiso, tshiga na ipfi.



Session 2: Numbers, Operations and Relationships (continued)

1 hour

Counting objects

To count '**how many**', learners need to realise that each object in a group has a number name and that you count each object only once.

There are five counting principles that describe the process of learning to count. Once learners have understood and can apply all five of these counting principles, we are able to say that they can count.



Activity 6

Read the information on pages 148–151 of the *Concept Guide*.

1. Use the apparatus provided to demonstrate these principles as they are explained in the *Concept Guide*.
2. Discuss each principle in your group and make your own notes in the table below to explain your understanding of each principle.

One-to-one correspondence principle	
Stable order principle	
Cardinal principle	
Abstraction principle	
Order-irrelevance principle	

Dzulo 2: Nomboro, Tswayo na Vhushaka (u bvela phanda)

Awara 1

U vhalela zwithu

U vhalela uri '**ndi zwingana**', vhagudi vha fanela u limuwa uri tshithu tshiñwe na tshiñwe tshi re kha tshigwada tshi na dzina 2a nomboro na uri vha vhalela tshithu tshiñwe na tshiñwe luthihi fhedzi.

Hu na milayo miṭanu ya u vhalela ine ya ṭalusa maitele a u guda u vhalela. Musi vhagudi vho no pfesesa na u kona u shumisa milayo iyi ya u vhalela yoṭhe miṭanu, ri a kona u amba uri vha a kona u vhalela.



Nyito ya 6

Kha vha vhale mafhungo a re kha masiaṭari a 148–151 a *Nyendedzi ya Divhaipfi*.

1. Kha vha shumise zwishumiswa zwo newaho u sumbedza milayo iyi sa zwe ya ṭalutshedziswa zwone ngomu ha *Nyendedzi ya Divhaipfi*.
2. Kha vha haseledze mulayo muñwe na muñwe tshigwadani tshavho vha ite notsi dzavho kha thebuḷu i re afho fhasi u itela u ṭalutshedza kupfesesele kwavho kwa mulayo muñwe na muñwe.

Mulayo wa u livhanyisa tshithu nga tshithu	
Mulayo wa u vhalela na vhunzhi	
Mulayo wa nomboro ya u vhalelwa lwa u fhedza	
Mulayo wa u vhalela khuvhanganyo i fareaho na i sa farei	
Mulayo wa u sa vha na ndeme ya u tevhekana	

Ordinal numbers

We have discussed the kinds of numbers that tell you 'how many'. These are called **cardinal numbers**.

There are also numbers that indicate the position of something or someone in a series or order. These are called **ordinal numbers**.



Activity 7

Arrange the animal counters on your table according to the facilitator's instructions. Answer her/his questions about the position of the animal counters.

Nomboro thevhekano

Ro haseledza tshakha dza nomboro dzine dza ri vhudza uri 'ndi zwingana'. Idzi dzi vhidzwa **nomboro dza u vhalelwa lwa u fhedza**.

Hu dovha hafhu ha vha na nomboro dzine dza sumbedza vhuimo ha tshithu kana munwe muthu kha tsielano kana mutevhe. Idzi dzi vhidzwa **nomboro thevhekano**.



Nyito ya 7

Kha vha dzudzanye zwithu zwa u vhalela ngazwo zwa phukha zwi re kha tafula u ya nga ndaela dza mutshimbidzi. Kha vha fhindule mbudziso dzawe nga vhuimo ha zwithu zwa u vhalela ngazwo zwa phukha.

Session 3: Calculation in Grade R

1 hour

Learners need to understand the value of numbers and the relationships between them before they can do operations like addition and subtraction. They need to know, for example, 'how many' three is; 3 comes before 4, after 2 and between 2 and 4; and 3 is one more than 2 and one less than 4.

Working with counters, structure beads, dot cards, and the shake-and-break game provides opportunities for learners to understand that numbers can be built up or broken down. In this way, they gradually recognise that any number is made up of many different combinations of other numbers. For example, number 5 can be made up of:

- ◆ 4 and 1
- ◆ 1 and 1 and 1 and 2
- ◆ 0 and 5.

In Grade R, learners explore different ways of building up and breaking down numbers, and adding and subtracting using counters.



Activity 8

Read the information on pages 154–156 of the *Concept Guide*.

Think about how you have used the materials provided in the Maths Programme to help learners understand number operations (calculations) and relationships. Use the materials to demonstrate this.

1. How do learners explore the concept of number in the Maths Programme using the materials provided?
2. What questions could you ask that would guide their learning? (Refer to page 156 of the *Concept Guide* for examples of questions.)

Prepare to present your discussion to the whole group.

Dzulo la 3: U rekanya kha Gireidi ya T

Awara 1

Vhagudi vha fanela u pfesesa ndeme ya nomboro na vhushaka vhukati hadzo vha sa athu shuma mbalo u fana na u tanganya na u tusa. Vha fanela u divha, sa tsumbo, 'ndi nngana' tharu dzi re hone; 3 i da phanda ha 4, nga murahu ha 2 na vhukati ha 2 na 4; na uri 3 i i fhira 2 nga nthihi na u vha thukhu kha 4 nga nthihi.

U shuma nga mutambo wa zwithu zwa u vhalela ngazwo, vhulungu ha u vhalela, magaraa a tshithoma, na u dzinginya na u kwasha zwi netshedza vhagudi zwickhala zwa u pfesesa uri nomboro dzi nga fhatiwa kana dza kwashiwa. Nga ndila iyi, nga zwiṭuku vha thoma u divha uri nomboro dzo itwa nga phathekhanyo nnzhi dzo fhambanaho dza dziṅwe nomboro. Sa tsumbo, nomboro 5 i nga vhumbwa nga:

- ◆ 4 na 1
- ◆ 1 na 1 na 1 na 2
- ◆ 0 na 5.

Kha Gireidi ya T, vhagudi vha tandula ndila dzo fhambanaho dza u fata na u kwasha nomboro, na u tanganya na u tusa vha tshi shumisa zwithu zwa u vhalela ngazwo.



Nyito ya 8

Kha vha vhale mafhungo a re kha masiatari a 154–156 a *Nyendedzi ya Divhaipfi*.

Kha vha humbule nga uri vho shumisa hani matheriala o netshedzwaho kha Mbekanyamushumo ya Mbalo u thusa vhagudi u pfesesa kushumele kwa nomboro (murekanyo) na vhushaka. Kha vha shumise matheriala u sumbedza izwi.

1. Vhagudi vha tandula hani divhaipfi ya nomboro kha Mbekanyamushumo ya Mbalo vha tshi shumisa matheriala o netshedzwaho?
2. Ndi mbudziso dzifhio dzine vha nga vhudzisa dzine dza do endedza u guda havho? (Kha vha sedze siatari la 157 la *Nyendedzi ya Divhaipfi* u itela tsumbo dza mbudziso.)

Kha vha dilugisele u kumedza khaseledzo yavho kha tshigwada tshihulwane.

Word problems

Grade R learners need to orally solve word problems involving addition, subtraction, and equal sharing and grouping. They also need to explain their own reasoning and ways of solving different problems.

Give learners plenty of time to think and let them use real objects (e.g. counters, fingers, structure beads) to solve the problems and check their answers.

When presenting a word problem to learners, it is important to encourage them to:

- ◆ find a strategy to solve the problem
- ◆ explain how they solved the problem
- ◆ say why they think their answer is correct.

Common addition and subtraction contexts can be presented as word problems. The way that the word problem is structured, determines how easy or difficult it is to solve. It is important to use clear, simple language when presenting word problems.

In Workshop 6 we looked at the importance of using clear, simple language and asking appropriate questions during problem-solving activities. We also designed real-world problems in contexts that learners could relate to. In Activity 9, you will discuss problem solving in more detail.



Activity 9

1. Look at the word problems below (page 26).
 - ◆ How would you solve each problem?
 - ◆ How do you think your Grade R learners would solve each problem?
 - ◆ Why are some of these problems more difficult than others?
 - ◆ Use the counters on your table to show how learners would solve the problems.

Thaidzo dza ipfi

Vhagudi vha Gireidi ya T vha fanela u tandulula thaidzo dza ipfi nga u tou amba hu tshi katelwa u tanganya, u tusa, na u kovha u edana na u vhea nga zwigwada. Vha fanela hafhu u talutshedza kuhumbulele kwavho na ndila dza u tandulula thaidzo dzo fhambanaho.

Kha vha nee vhagudi tshifhinga tshinzhi tsha u humbula nahone vha vha tendele u shumisa zwithu zwa vhukuma (sa tsumbo, zwithu zwa u vhalela ngazwo, minwe, vhulungu ha u vhalela) u tandulula thaidzo na u tola phindulo dzavho.

Musi vha tshi kumedza thaidzo ya ipfi kha vhagudi, ndi zwa ndeme u vha tutuwedza u:

- ◆ wana maano a u tandulula thaidzo
- ◆ talutshedza uri vho tandululisa hani thaidzo
- ◆ bula uri ndi ngani vha tshi humbula uri phindulo yavho ndi yone.

Nyimele dzo dowealeho dza u tanganya na u tusa dzi nga kumedzwa sa thaidzo dza ipfi. Ndila ye thaidzo ya ipfi ya vhumbiwa ngayo, i ta uri zwi nga konda kana u leluwa hani u tandulula. Ndi zwa ndeme u shumisa luambo lu pfalaho, lwo leluwaho musu vha tshi kumedza thaidzo dza ipfi.

Kha Wekishopo ya 6 ro lavhelesa kha ndeme ya u shumisa luambo lu sa kondi, lu re khagala na u vhudzisa mbudziso dzo teaho nga tshifhinga tsha nyito dza u tandulula thaidzo. Ro dovha ra dizaina thaidzo dza vhukuma kha nyimele dzine vhagudi vha nga dzi divha. Kha Nyito ya 9, vha do haseledza u tandulula thaidzo nga vhudalo.



Nyito ya 9

1. Kha vha lavhelese thaidzo dza ipfi dzi re afho fhasi (siafari la 27).
 - ◆ Vha do tandululisa hani thaidzo inwe na inwe?
 - ◆ Vha humbula uri vhagudi vhavho vha Gireidi ya T vha do tandululisa hani thaidzo inwe na inwe?
 - ◆ Ndi ngani dzi inwe dza thaidzo idzi dzi tshi konda u fhira dzi inwe?
 - ◆ Kha vha shumise zwithu zwa u vhalela ngazwo zwi re kha tafula yavho u sumbedza uri vhagudi vha do tandululisa hani thaidzo.

Combine	Separate
Laylah has 6 sweets. Malusi gives her 2 more. How many sweets does Laylah have altogether?	There are 8 sweets. Laylah eats 3 sweets. How many are left for Malusi?
Laylah has 5 sweets. How many more does she need to have 8?	Laylah has 8 sweets. Malusi eats some. There are 4 left. How many did Malusi eat?
Laylah had some sweets. Malusi gives her 2 more. Now she has 8. How many did Laylah start with?	Laylah had some sweets. She gave 6 sweets to Malusi. She has 2 sweets left. How many sweets did she start with?

2. Write a word problem that you could present to your Grade R learners for each of the following:

Addition: $4 + 5 =$

Subtraction: $7 - 3 =$

Equal sharing without a remainder: 8 shared between 4 learners

U t̄anganyisa	U fhambanyisa
Laylah u na maḷegere a 6. Malusi a mu ṅea maṅwe 2. Lylah u na maḷegere mangana o fhelela oṭhe?	Hu na maḷegere a 8. Laylah a ḷa maḷegere 3. Ho sala maḷegere mangana a Malusi?
Laylah u na maḷegere 5. U ṭoda maṅwe mangana uri a vhe na a 8?	Laylah u na maḷegere a 8. Malusi a ḷa maṅwe. Ho sala 4. Malusi o ḷa maḷegere mangana?
Laylah o vha e na maḷegere. Malusi a mu ṅea maṅwe 2. Zwino u na a 8. Laylah o vhe e na maḷegere mangana mathomoni?	Laylah o vha e na maḷegere. O ṅea Malusi maḷegere a 6. O sala na maḷegere 2. O vha e na maḷegere mangana mathomoni?

2. Kha vha ṅwale thaidzo ya ipfi ine vha nga kumedza kha vhagudi vhavho vha Gireidi ya Ṭ kha tshiṅwe na tshiṅwe tsha zwi tevhelaho:

U t̄anganya: $4 + 5 =$

U t̄usa: $7 - 3 =$

U kovha hu si na tshiṭahe: 8 yo kovhiwa vhukati ha vhagudi 4

Equal sharing with a remainder: 5 shared between 2 learners

U kovha ha vha na tshitahe: 5 yo kovhiwa vhukati ha vhagudi 2

Session 4: Planning for teaching

1½ hours

This workshop session prepares participants for implementing Term 3 Weeks 7–10. By this stage of the year, the teacher will have noticed distinct differences between learners' levels of progress. Term 3 builds on the content of Terms 1 and 2. Some learners will be ready for this, while others will need support and more consolidation to progress. It is important to plan and prepare for this difference in learner competence to ensure that all the content and skills of Grade R Mathematics are covered, and learners are well prepared for Term 4.



Watch the video of a teacher discussing how she deals with the range of learner competence in her class. Listen to what she says about planning and managing the difference between learners' ability levels and how she goes about her planning in order to support the learners' individual needs.

Note your ideas about differentiated teaching and learning in your classroom.



1. In your group, complete the planning templates for Term 3 Weeks 7–10 (Appendix A).
2. Your group will present an overview of your planning discussion to the other groups. Note the main points of your discussion on flipchart paper. Include answers to the following questions:
 - ◆ What challenges do you anticipate in implementing Weeks 7–10?
 - ◆ How can you solve each of these challenges in order to achieve successful implementation?
 - ◆ How does the teacher-guided activity provide opportunities for the teacher to assess and support the learners?
 - ◆ Do the independent small group activities allow for adequate practice of new knowledge and skills?

Dzulo la 4: U pulanela u funza

Awara 1½

Dzulo ili la wekishopo li lugisela vhashelamulenzhe u thoma Kotara ya 3 Vhege ya 7–10. Nga tshifhinga tshino tsha n'waha, mugudisi u do vha o no limuwa phambano vhukati ha levele dza mvelaphanda dza vhagudi. Kotara ya 3 i fhaṭa kha magudiswa a Kotara ya 1 na 2. Vhanwe vhagudi vha do vha vho no lugela izwi, ngeno vhanwe vha tshi do toda thikhedzo na u pfumbiswa hunzhi u itela mvelaphanda. Ndi zwa ndeme u pulana na u lugisela phambano iyi kha vhukoni ha vhagudi u itela uri magudiswa na zwikili zwothe zwa Gireidi ya T zwo kwamiwa, nahone vhagudi vho lugiselwa zwavhuḁi Kotara ya 4.



Vidiyo ya 2

Kha vha talele vidiyo ya mugudisi a tshi talutshedza uri u shuma hani na vhukoni ho fhambanaho ha vhagudi ngomu klasini yawe. Kha vha thetshesele zwine a khou amba nga u pulana na u langa phambano i re vhukati ha levele dza vhukoni ha vhagudi na uri u pulanisa hani u itela u tikedza thodea dza mugudi muḁwe na muḁwe.

Kha vha ite notsi dza mihumbulo yavho nga u funza na u guda ho fhambanaho klasini yavho.



Nyito ya 10

1. Tshigwadani tshavho, kha vha fhedzise themphuleithi ya u pulana ya Kotara ya 3 Vhege ya 4–6 (Thumetshedzo ya A).
2. Tshigwada tshavho tshi do kumedza manweledzo a khaseledzo ya u pulana havho kha zwiḁwe zwigwada. Kha vha n'wale mbuno khulwane dza khaseledzo yavho kha bambiri la filipitshati. Vha katele phindulo dza mbudziso dzi tevhelaho:
 - ◆ Ndi dzikhaedu dzifhio dzine vha lavhelela kha u thoma Vhege ya 7–10?
 - ◆ Vha nga tandulula hani iḁwe na iḁwe ya dzikhaedu idzi u itela u swikelela u thoma ho bvelelaho?
 - ◆ Nyito yo rangwaho phanda nga mugudisi i netshedza hani mugudisi zwickhala zwa u linga na u tikedza vhagudi?
 - ◆ Hone nyito dza tshigwada tshituku dzo diimisaho dzi a tendela ndowendowe yo linganelaho ya ndivho ntswa na zwikili?

Closing activities

30 minutes



Activity 11

Workshop reflection: Take a few minutes to reflect on the day. Page through your *Participant's Workbook* to remind yourself of what was covered. Write down your thoughts.

Share your reflections with the large group.



Take back to school task

1. Use *Activity Guide: Term 3* to plan and implement Term 3 Weeks 7–10 of the Maths Programme.
2. Make notes of what worked well, what did not work well and how you resolved any challenges during your implementation of Term 3 Weeks 7–10.
3. Write comments in the book that you use to keep track of each learner's progress (learner observation book). Use the '**Check that learners are able to**' observation list (eye box) during each of the teacher-guided activities to guide your observations and comments.
4. Bring your learner observation book and the notes you made when reflecting on each day's teaching to the next workshop.
5. Bring a copy of Term 3: Exemplar Record of Continuous Assessments (from *Activity Guide: Term 3*) to the next workshop.

Evaluation

Complete the Evaluation Form.

Nyito dza u vala

Minetse ya 30



Nyito ya 11

U amba nga wekishopo: Kha vha dzhie minetse i si gathi u amba nga ḏuvha. Kha vha fhende *Bugu ya Mushumo ya Vhashelamulenzhe* yavho u ḏi humbudza nga zwe zwa kwamiwa. Kha vha ṉwale mihumbulo yavho.

Kha vha kovhane zwe vha amba na tshigwada tshihulwane.



Mushumo wa u ṯuwa nawo tshikoloni

1. Kha vha shumise *Nyendedzi ya Nyito: Kotara ya 3* u pulana na u thoma Kotara ya 3 Vhege ya 7–10 dza Mbekanyamushumo ya Mbalo
2. Kha vha ite notsi dza zwe zwa shuma zwavhuḍi, zwe zwa si shume zwavhuḍi, na uri vho tandulula hani dzikhaedu dziḱwe na dziḱwe nga tshifhinga tsha u thoma havho Kotara ya 3 Vhege ya 7–10.
3. Kha vha ṉwale mahumbulwa buguni ine vha i shumisa u itela u sedza mvelaphanḁa ya mugudi muḱwe na muḱwe (bugu ya u lavhelesa vhagudi). Kha vha shumise mutevhe wa u lavhelesa wa **'Kha vha ṯole uri vhagudi vha a kona u'** (kha iḱo tshibogisini) nga tshifhinga tsha nyito dzo rangwaho phanḁa nga mugudisi dziḱwe na dziḱwe u itela u endedza u lavhelesa havho na mahumbulwa.
4. Kha vha ḏe na bugu ya u lavhelesa vhagudi na notsi dze vha ita musi vha tshi khou amba nga ha u funza ha ḏuvha liḱwe na liḱwe kha wekishopo i tevhelaho.
5. Kha vha ḏe na khophi ya Kotara ya 3: Tsumbo ya Rekhodo ya u Linga hu yaho Phanḁa (u bva kha *Nyendedzi ya Nyito: Kotara ya 3*) kha wekishopo i tevhelaho.

U linga

Kha vha ḏadze Fomo ya u Linga.

APPENDIX A: TERM 3 WEEKLY PLANNING TEMPLATE

Term 3: Activity Plan: Week ____

CONTENT AREA:				
TOPIC:				
INTRODUCE NEW KNOWLEDGE:				
PRACTISE:				
Whole class activities		Teacher-guided activity	Workstation activities (independent small group activities)	
Day 1			Activity 1	
Day 2			Activity 2	
Day 3			Activity 3	
Day 4			Activity 4	
Day 5				

THUMETSHEDZO YA A: THEMPHULEITHI YA U PULANA YA VHEGE NGA VHEGE YA KOTARA YA 3

Kotara ya 3: Pulane ya Nyito: Vhege ____

SIA LA MAGUDISWA:				
THERO:				
KHA VHA DIVHADZE NDIVHO NTSWA:				
NDOWEDZO:				
Nyito dza kilasi yothe		Nyito yo rangwaho phanda nga mugudisi	Nyito dza tshitshini tsha u shumela (nyito dza tshigwada tshituku tsho diimisaho)	
Duvha la 1			Nyito ya 1	
Duvha la 2			Nyito ya 2	
Duvha la 3			Nyito ya 3	
Duvha la 4			Nyito ya 4	
Duvha la 5				

Term 3: Activity Plan: Week ____

CONTENT AREA:				
TOPIC:				
INTRODUCE NEW KNOWLEDGE:				
PRACTISE:				
Whole class activities		Teacher-guided activity	Workstation activities (independent small group activities)	
Day 1			Activity 1	
Day 2			Activity 2	
Day 3			Activity 3	
Day 4			Activity 4	
Day 5				

Kotara ya 3: Pulane ya Nyito: Vhege ____

SIA LA MAGUDISWA:				
THERO:				
KHA VHA DIVHADZE NDIVHO NTSWA:				
NDOWEDZO:				
Nyito dza kilasi yothe		Nyito yo rangwaho phanda nga mugudisi	Nyito dza tshithshini tsha u shumela (nyito dza tshigwada tshikuku tsho diimisaho)	
Duvha la 1			Nyito ya 1	
Duvha la 2			Nyito ya 2	
Duvha la 3			Nyito ya 3	
Duvha la 4			Nyito ya 4	
Duvha la 5				

Term 3: Activity Plan: Week ____

CONTENT AREA:				
TOPIC:				
INTRODUCE NEW KNOWLEDGE:				
PRACTISE:				
Whole class activities		Teacher-guided activity	Workstation activities (independent small group activities)	
Day 1			Activity 1	
Day 2			Activity 2	
Day 3			Activity 3	
Day 4			Activity 4	
Day 5				

Kotara ya 3: Pulane ya Nyito: Vhege ____

SIA LA MAGUDISWA:				
THERO:				
KHA VHA DIVHADZE NDIVHO NTSWA:				
NDOWEDZO:				
Nyito dza kɩlasi yothe		Nyito yo rangwaho phanda nga mugudisi	Nyito dza tshɩtshini tsha u shumela (nyito dza tshigwada tshɩtuku tsho diimisaho)	
Duvha la 1			Nyito ya 1	
Duvha la 2			Nyito ya 2	
Duvha la 3			Nyito ya 3	
Duvha la 4			Nyito ya 4	
Duvha la 5				

Term 3: Activity Plan: Week ____

CONTENT AREA:				
TOPIC:				
INTRODUCE NEW KNOWLEDGE:				
PRACTISE:				
Whole class activities		Teacher-guided activity	Workstation activities (independent small group activities)	
Day 1			Activity 1	
Day 2			Activity 2	
Day 3			Activity 3	
Day 4			Activity 4	
Day 5				

Kotara ya 3: Pulane ya Nyito: Vhege ____

SIA LA MAGUDISWA:				
THERO:				
KHA VHA DIVHADZE NDIVHO NTSWA:				
NDOWEDZO:				
Nyito dza kɩlasi yothe		Nyito yo rangwaho phanda nga mugudisi	Nyito dza tshɩtshini tsha u shumela (nyito dza tshigwada tshɩtuku tsho diimisaho)	
Duvha la 1			Nyito ya 1	
Duvha la 2			Nyito ya 2	
Duvha la 3			Nyito ya 3	
Duvha la 4			Nyito ya 4	
Duvha la 5				

Workshop 9 Evaluation Form

1. Did the workshop meet your expectations?

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

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

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

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

Fomo ya u LINGA ya WEKISHOPO ya 9

1. Wekishopo yo swikelela ndavhelelo dzavho?

2. Ndi zwifhio zwe vha guda kha iyi wekishopo zwe zwa vha thusesa?

3. Ho vhuya ha vha na zwiṅwe zwe vha si zwi takalele kana zwe vha konḑelwa u zwi pfesesa?

4. Vha ḑo shumisa hani zwe vha guda ngomu kiḷasirumuni yavho ya Gireidi ya T?

5. Vha na zwine vha tama u dzinginya u itela u khwinisa wekishopo dzi tevhelaho?
