

MATHEMATICS

Grade 3

**English/
Tshivenda**

**Teacher's
Resource
Pack**

2019 TERM 2

Contents

1	Printable Resources	1
	Printable resource sheets	1
1	Multiplication table (lesson 1 and other)	2
	Thebuḽu ya muandiso (ngudo ya 1 na inwe)	2
2	Multiplication cards/Garaṭṭa dza muandiso (lesson 1 and other/ ngudo ya 1 na inwe)	3
3	Multiplication cards/Garaṭṭa dza muandiso (lesson 1 and other/ ngudo ya 1 na inwe)	4
4	Multiplication cards/Garaṭṭa dza muandiso (lesson 1 and other/ ngudo ya 1 na inwe)	5
5	Array diagram (lesson 2 and other)	6
	Nyolo dza mutevhe (arei) (ngudo ya 2 na inwe)	6
6	Shape cut outs (1) (lesson 38)	7
	Zwigeriwa zwa zwivhumbeo (1) (ngudo ya 38)	7
7	Shape name cards (lesson 38 and 39)	8
8	Garaṭṭa dza madzina a zwivhumbeo (ngudo ya 38 na ya 39)	10
9	Shape cut outs (2) (lesson 39, 44, 47)	12
	Zwigeriwa zwa zwivhumbeo(2) (ngudo dza 39, 44, 47)	12
2	Written assessments	13
	Written Assessment Lesson 8	13
	U linga ha U ṅwala Ngudo ya 8	13
	Written Assessment Lesson 16	15
	U linga ha U ṅwala Ngudo ya 16	15
	Written Assessment Lesson 21	18
	U linga ha U ṅwala Ngudo ya 21	18
	Written Assessment Lesson 24	20
	U linga ha U ṅwala Ngudo ya 24	20
	Written Assessment Lesson 31	22
	U linga ha U ṅwala Ngudo ya 31	22
	Written Assessment Lesson 37	24
	U linga ha U ṅwala Ngudo ya 37	24
	Written Assessment Lesson 43	26
	U linga ha U ṅwala Ngudo ya 43	26
	Written Assessment Lesson 49	28
	U linga ha U ṅwala Ngudo ya 49	28

I Printable Resources

Printable resource sheets

This is a list of the mathematical resources that you will need this term. You need to make sure that you have them for the lessons for which they are recommended.

1	Multiplication table (lesson 1 and other)	2
	Thebuḽu ya muandiso (ngudo ya 1 na inwe)	2
2	Multiplication cards/Garaṽa dza muandiso (lesson 1 and other/ ngudo ya 1 na inwe)	3
3	Multiplication cards/Garaṽa dza muandiso (lesson 1 and other/ ngudo ya 1 na inwe)	4
4	Multiplication cards/Garaṽa dza muandiso (lesson 1 and other/ ngudo ya 1 na inwe)	5
5	Array diagram (lesson 2 and other)	6
	Nyolo dza mutevhe (arei) (ngudo ya 2 na inwe)	6
6	Shape cut outs (1) (lesson 38)	7
	Zwigeriwa zwa zwivhumbeo (1) (ngudo ya 38)	7
7	Shape name cards (lesson 38 and 39)	8
8	Garaṽa dza madzina a zwivhumbeo (ngudo ya 38 na ya 39)	10
9	Shape cut outs (2) (lesson 39, 44, 47)	12
	Zwigeriwa zwa zwivhumbeo(2) (ngudo dza 39, 44, 47)	12

RESOURCES FOR EACH DAY OF TEACHING

There are also other resources such as informal resources (old magazines, pieces of string, scrap paper, etc.) that you may need in certain lessons. You should have a careful look at the list of resources needed for each lesson; this list is given in the lesson plans each day. Prepare yourself, so that you have the necessary resources for the lessons on a daily basis.

ZWIKO ZWA U FUNZA ZWA ḽUVHA NGA ḽUVHA

Hu na zwiko zwinwevho zwi no nga zwiko zwi si zwa fomaḽa (magazini ya kale, zwipiḽa zwa vhutambo/miḽali, mabambiri o no shumiswaho, nzw.) zwine vha nga zwi shumisa kha dziinwe dza ngudo. Vha tea u sedza mutevhe wa zwiko nga vhuronwane une wa ḽo shumiswa kha ngudo inwe na inwe; mutevhe uyu u sumbedzwa kha pulane ya ngudo ya ḽuvha ḽinwe na ḽinwe. Kha vha ḽilugise, uri ḽuvha ḽinwe na ḽinwe vha vhe vhe na zwiko zwo teaho ngudo.

I Multiplication table (lesson I and other)

Thebulu ya muandiso (ngudo ya I na inwe)

	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10
2	2	4	6	8	10	12	14	16	18	20
3	3	6	9	12	15	18	21	24	27	30
4	4	8	12	16	20	24	28	32	36	40
5	5	10	15	20	25	30	35	40	45	50
6	6	12	18	24	30	36	42	48	54	60
7	7	14	21	28	35	42	49	56	63	70
8	8	16	24	32	40	48	56	64	72	80
9	9	18	27	36	45	54	63	72	81	90
10	10	20	30	40	50	60	70	80	90	100

2 Multiplication cards/Garāṭa dza muandiso (lesson 1 and other/ngudo ya 1 na irwe)

1×1	2×1	3×1
1×2	2×2	3×2
1×3	2×3	3×3
1×4	2×4	3×4
1×5	2×5	3×5
1×6	2×6	3×6
1×7	2×7	3×7
1×8	2×8	3×8
1×9	2×9	3×9

3 Multiplication cards/Garata dza muandiso (lesson 1 and other/ngudo ya 1 na inwe)

4×1	5×1	6×1
4×2	5×2	6×2
4×3	5×3	6×3
4×4	5×4	6×4
4×5	5×5	6×5
4×6	5×6	6×6
4×7	5×7	6×7
4×8	5×8	6×8
4×9	5×9	6×9

4. Multiplication cards/Garaṭa dza muandiso (lesson 1 and other/ngudo ya 1 na irwe)

7×1	8×1	9×1
7×2	8×2	9×2
7×3	8×3	9×3
7×4	8×4	9×4
7×5	8×5	9×5
7×6	8×6	9×6
7×7	8×7	9×7
7×8	8×8	9×8
7×9	8×9	9×9

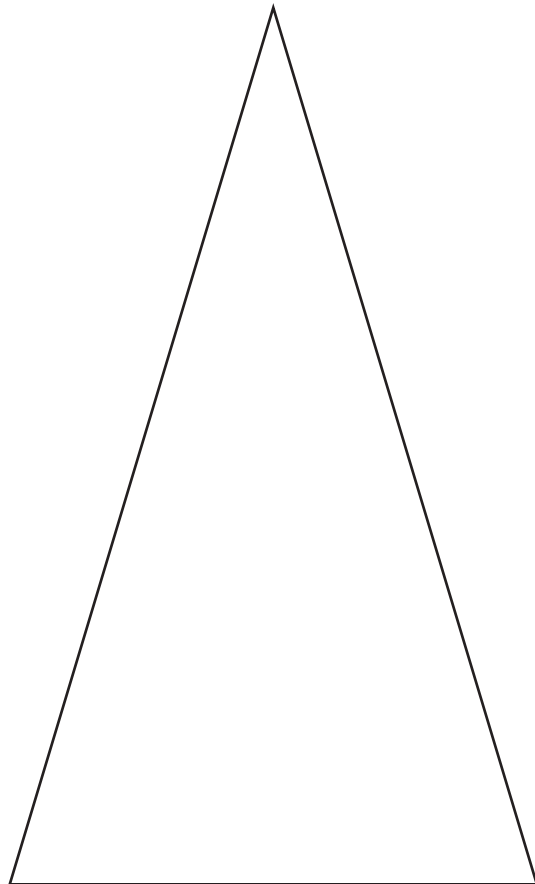
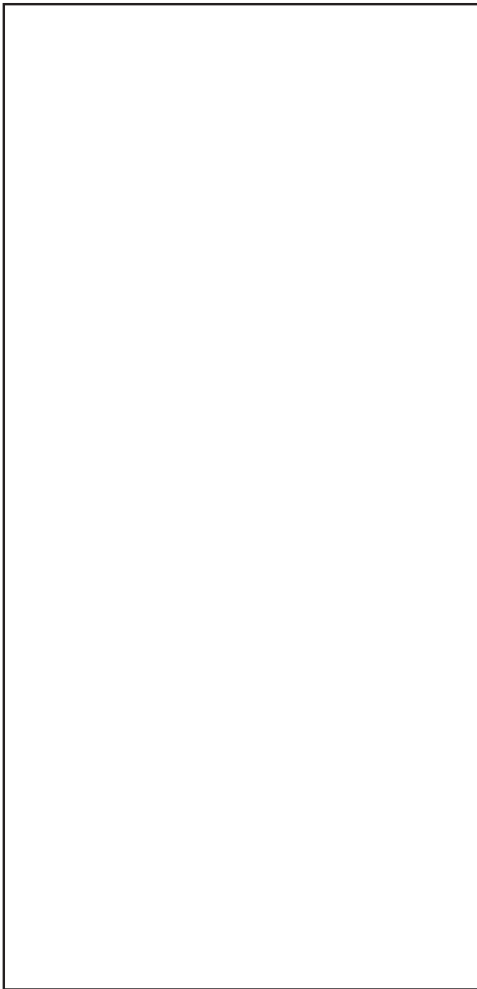
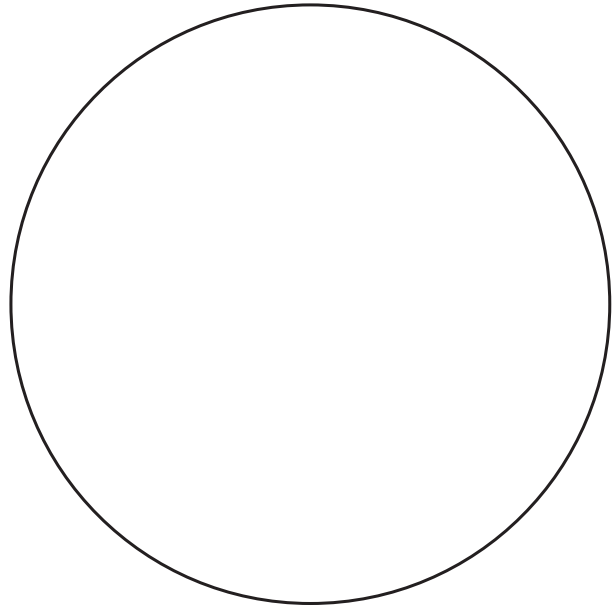
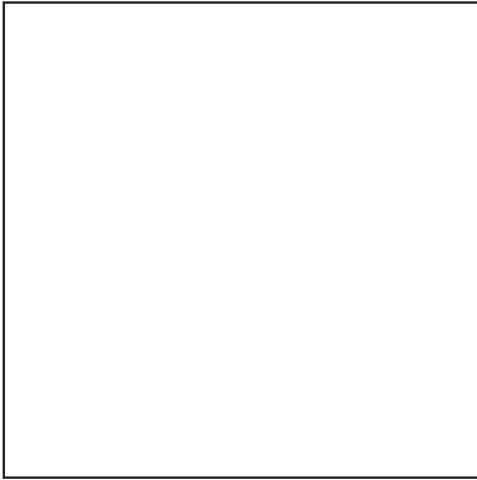
5 Array diagram (lesson 2 and other)

Nyolo dza mutevhe (arei) (ngudo ya 2 na inwe)

Array diagram for multiplication table Nyolo ya mutevhe wa thebuḽu ya muandiso										
	1	2	3	4	5	6	7	8	9	10
1	●	●	●	●	●	●	●	●	●	●
2	●	●	●	●	●	●	●	●	●	●
3	●	●	●	●	●	●	●	●	●	●
4	●	●	●	●	●	●	●	●	●	●
5	●	●	●	●	●	●	●	●	●	●
6	●	●	●	●	●	●	●	●	●	●
7	●	●	●	●	●	●	●	●	●	●
8	●	●	●	●	●	●	●	●	●	●
9	●	●	●	●	●	●	●	●	●	●
10	●	●	●	●	●	●	●	●	●	●

6 Shape cut outs (I) (lesson 38)

Zwigeriwa zwa zwivhumbeo (I) (ngudo ya 38)



7 Shape name cards (lesson 38 and 39)

rectangle

triangle

circle

square

8 Garaṭa dza madzina a zwivhumbeo (ngudo ya 38
na ya 39)

rekhithengele

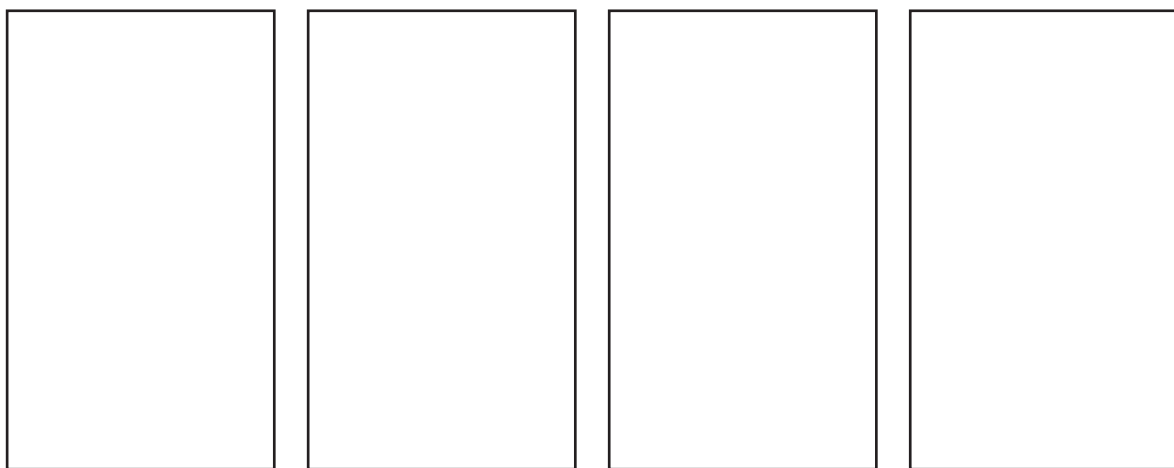
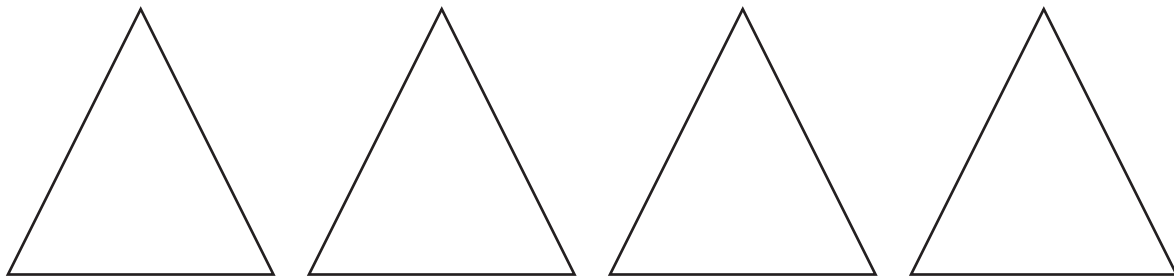
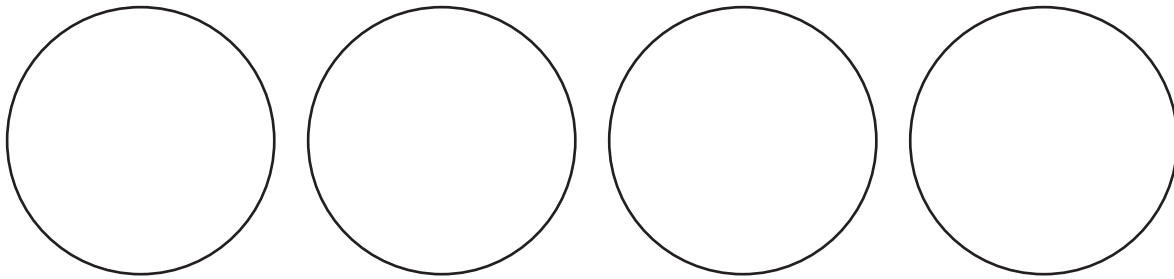
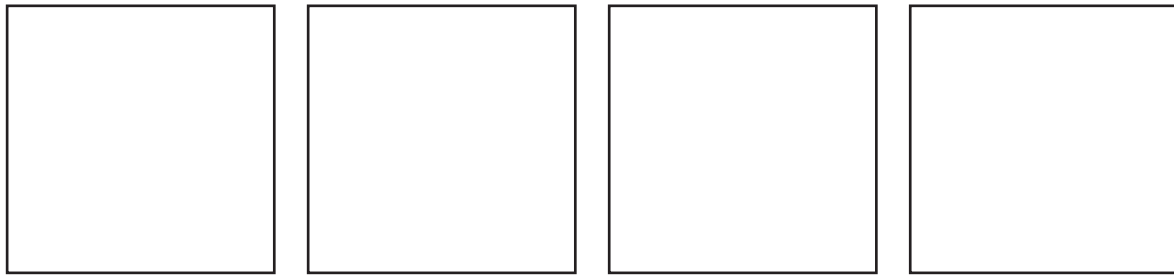
thiraiengele

tshitendeledzi

tshikwea

9 Shape cut outs (2) (lesson 39, 44, 47)

Zwigeriwa zwa zwivhumbeo(2) (ngudo dza
39, 44, 47)



2 Written assessments

Written Assessment Lesson 8

Ulinga ha Urwala Ngudo ya 8

1 Complete the table:

Fhedzisani/ḡadzani thebuḡu:

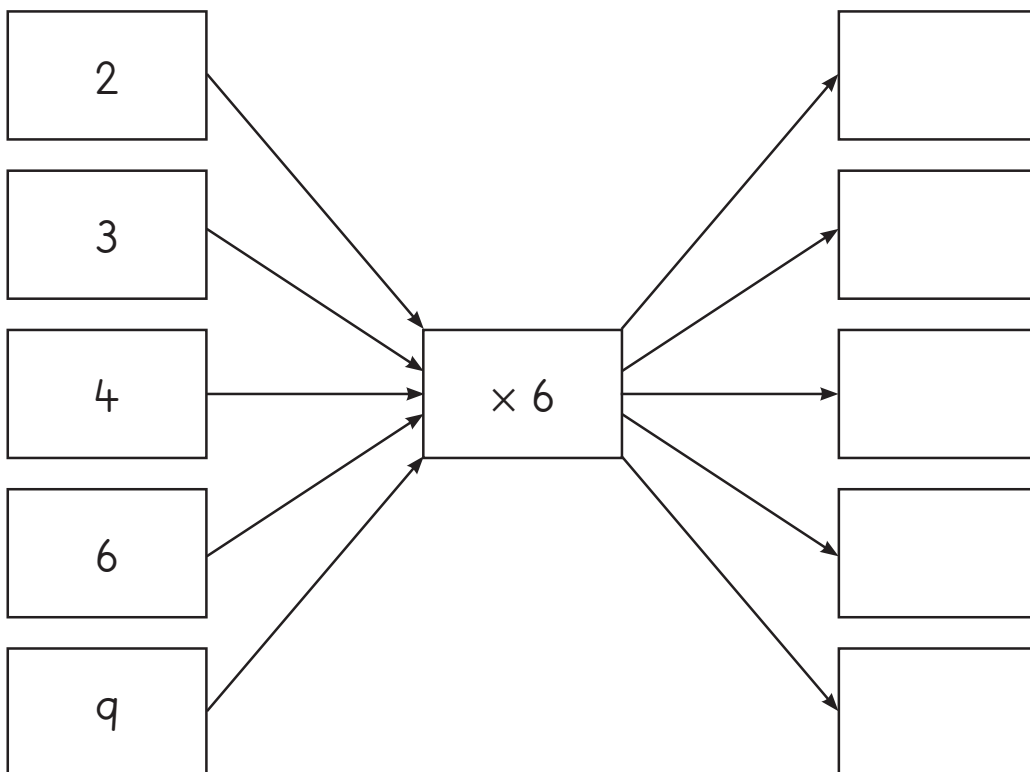
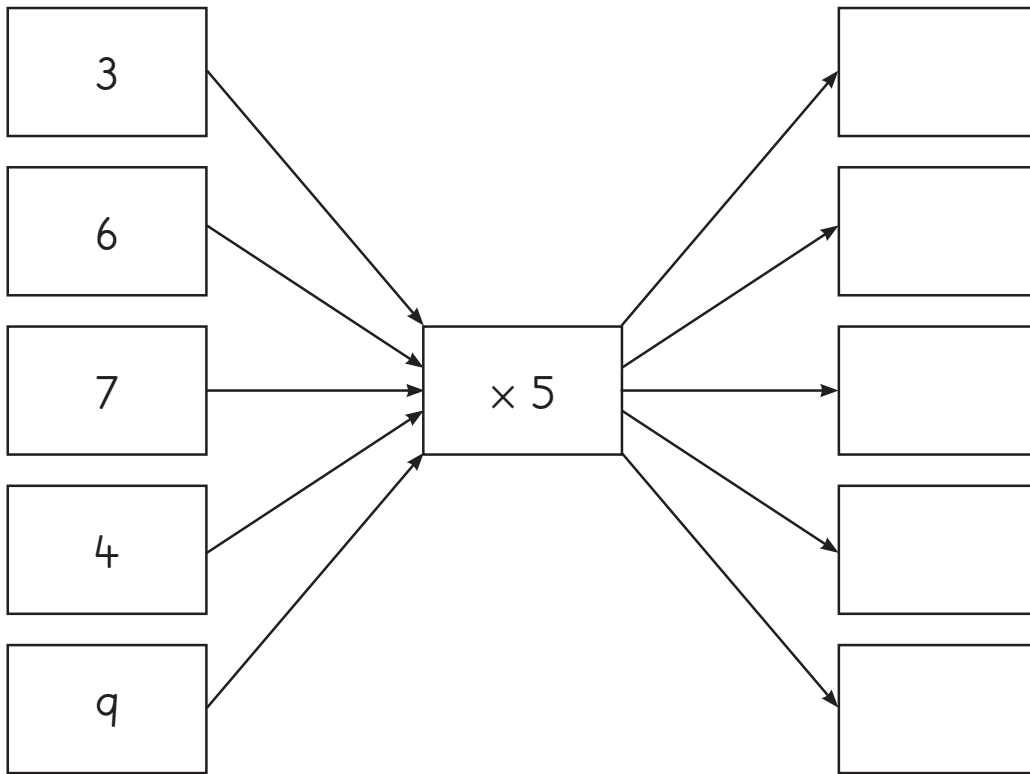
(17)

	Multiplication Muandiso	Repeated addition Ndovhololo ya muḡanganyo	Answer Phindulo
a	4×5	$5 + 5 + 5 + 5$	
b	3×6		
c		$7 + 7 + 7 + 7 + 7 + 7 + 7 + 7 + 7$	
d	2×6		
e		$7 + 7 + 7$	
f	7×5		
g		$6 + 6 + 6 + 6 + 6 + 6 + 6 + 6 + 6$	
h	8×7		
i		$5 + 5 + 5 + 5 + 5 + 5$	

2 Complete the flow diagrams:

Fhedzisani nyolo dza muelo:

(10)



Written Assessment Lesson 16

Ulinga ha Urwala Ngudo ya 16

1 Write the number sentences with answers:

Nwalani mafhungombalo a re na phindulo:

(5)

		Number sentence Fhungombalo																																										
a	<table border="1"> <tr> <td></td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>6</td> <td>7</td> <td>8</td> <td>9</td> </tr> <tr> <td>1</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> </tr> <tr> <td>2</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> </tr> <tr> <td>3</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> </tr> </table>		1	2	3	4	5	6	7	8	9	1	●	●	●	●	●	●	●	●	●	2	●	●	●	●	●	●	●	●	●	3	●	●	●	●	●	●	●	●	●			
		1	2	3	4	5	6	7	8	9																																		
	1	●	●	●	●	●	●	●	●	●																																		
	2	●	●	●	●	●	●	●	●	●																																		
3	●	●	●	●	●	●	●	●	●																																			
b	<table border="1"> <tr> <td></td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>6</td> </tr> <tr> <td>1</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> </tr> <tr> <td>2</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> </tr> <tr> <td>3</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> </tr> <tr> <td>4</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> </tr> <tr> <td>5</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> </tr> </table>		1	2	3	4	5	6	1	●	●	●	●	●	●	2	●	●	●	●	●	●	3	●	●	●	●	●	●	4	●	●	●	●	●	●	5	●	●	●	●	●	●	
		1	2	3	4	5	6																																					
	1	●	●	●	●	●	●																																					
	2	●	●	●	●	●	●																																					
	3	●	●	●	●	●	●																																					
	4	●	●	●	●	●	●																																					
5	●	●	●	●	●	●																																						
c	<p>7 groups of 2 Zwigwada zwa 7 zwa 2</p>																																											
d	<p>3 groups of 8 Zwigwada zwa 3 zwa 8</p>																																											
e	<p>6 groups of 5 Zwigwada zwa 6 zwa 5</p>																																											

2 Write the number sentences with answers:

Nwalani mafhungombalo a re na phindulo:

(4)

	Repeated addition Ndovhololo ya mutanganyo	Number sentence Fhungombalo
a	$7 + 7 + 7 + 7 + 7 + 7 + 7 + 7 =$	
b	$3 + 3 + 3 + 3 + 3 =$	
c	$9 + 9 + 9 + 9 + 9 + 9 =$	
d	$5 + 5 + 5 + 5 + 5 + 5 + 5 + 5 + 5 =$	

3 Calculate by doubling:

Rekanyani nga u inga kavhili:

(5)

	Multiple Nyandiso	Double Nyingakavhili	Add Tanganyani	Answer Phindulo
a	2×21	$20 + 1 + 20 + 1$	$40 + 2$	
b	2×36			
c	2×47			

4 Solve the problems.

Tandululani thaidzo.

(2 × 3 = 6)

- a Silindile has 21 shells.
She finds another 21 shells.
How many shells does she have now?

Sandile u na khumba dza 21.
U wana dziñwe khamba dza 21.
U na khamba nngana zwino?

-
- b Lindo has 45 marbles.
He wins another 46 marbles.
How many marbles does he have now?

Lindo u na mimavhuu ya 45.
A wina miñwe mimavhuu ya 46.
U na mimavhuu mingana zwino?

Written Assessment Lesson 21

Ulinga ha Ukwala Ngudo ya 21

1 Calculate:

Rekanyani:

(8)

a	$10 \times 7 =$	
b	$10 \times 2 =$	
c	$3 \times 10 =$	
d	$5 \times 10 =$	
e	$10 \times 10 =$	
f	$9 \times 10 =$	
g	$1 \times 10 =$	
h	$10 \times 5 =$	

2 Complete the table:

Fhedzisani/ḡadzani thebuḡu

(10)

		Repeated addition Ndovhololo ya muḡanganyo	Number sentence Fhungombalo
a	4 groups of 6 Zwigwada zwa 4 zwa 6		$4 \times 6 = 24$
b	2 groups of 4 Zwigwada zwa 2 zwa 4	$4 + 4$	
c		$10 + 10 + 10$	$3 \times 10 = 30$
d	5 groups of 7 Zwigwada zwa 5 zwa 7		
e	10 groups of 6 Zwigwada zwa 10 zwa 6	$6 + 6 + 6 + 6 + 6 + 6 + 6 + 6 + 6 + 6$	
f	4 groups of 9 Zwigwada zwa 4 zwa 9		$4 \times 9 = 36$
g		$5 + 5 + 5 + 5 + 5 + 5 + 5 + 5$	
h	9 groups of 8 Zwigwada zwa 9 zwa 8	$8 + 8 + 8 + 8 + 8 + 8 + 8 + 8 + 8$	

Written Assessment Lesson 24

Ulinga ha Urwala Ngudo ya 24

- 1 Draw a line between number sentences that give the same answer:

Talani mutalo u no livhanya mafhungombalo a re na phindulo dzi no fana: (8)

3×5	8×6
7×4	2×5
6×8	4×9
9×1	5×3
5×2	4×7
6×3	7×8
8×7	1×9
9×4	3×6

- 2 Use your multiplication table to find the missing numbers:

Shumisani thebuḽu yaṅu ya muandiso kha u wana nomboro dzi no khou ṭahela: (6)

		Answer Phindulo
a	$\square \times 5 = 35$	
c	$7 \times \square = 28$	
e	$\square \times 2 = 14$	

		Answer Phindulo
b	$6 \times \square = 36$	
d	$\square \times 8 = 72$	
f	$5 \times \square = 30$	

3 Draw an array diagram to show:

Olani nyolo ya mutevhe/arei ni tshi sumbedza:

(4)

	Multiple Nyandiso	Array Mutevhe
a	3×2	
b	2×3	
c	5×1	
d	1×5	

Written Assessment Lesson 3I

Ulinga ha Urwala Ngudo ya 3I

- 1 Write half past 7 in digital time.

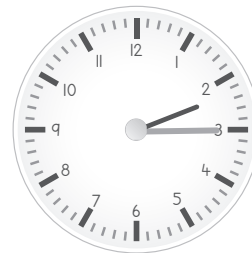
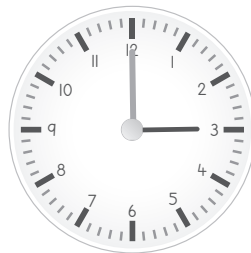
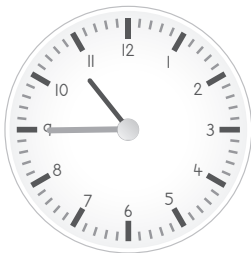
Ñwalani hafu u bva kha awara ya 7 nga tshifhinga tsha didzhithaḷa. (1)

- 2 Write quarter to 9 in digital time.

Ñwalani kotara u ya kha awara ya 9 nga tshifhinga tsha didzhithaḷa. (1)

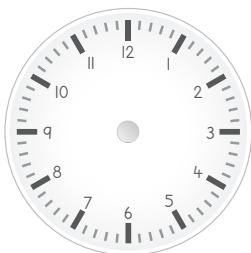
- 3 Circle the clock that shows quarter past two.

Tangedzelani kiḷoko/watshi i no khou sumbedza kotara u bva kha awara ya vuvhili. (1)



- 4 Draw the hands on this analogue clock to show half past 3 in the afternoon.

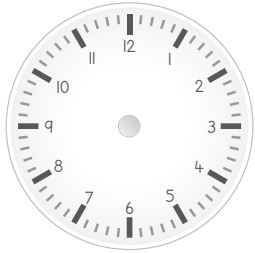
Olani maḅanga/vhutanda kha watshi iyi ya anaḷogo ni tshi sumbedza hafu u bva kha awara ya 3 nga masiari. (2)



- 5 Show quarter to 10 on an analogue and a digital clock.

Sumbedzani kotara u ya kha awara ya 10 kha watshi ya analogo na ya didzhithala. (3)

a



b



- 6 How much time passed between 2 o'clock and half past four in the afternoon?

Ho no fhela tshifhinga tshingafhani vhukati ha awara ya 2 na hafu u bva kha awara ya vhuṅa nga masiari? (2)

Written Assessment Lesson 37

Ulinga ha Urwala Ngudo ya 37

- 1 Circle which of these shapes have round sides. (1)

Square, circle, rectangle, triangle

Tangedzelani zwivhumbeo zwi re na vhurumbu ha tshipulumbu kha zwi tevhelaho.

Tshikwea, tshitendeledzi, rekhithengele, thiraiengele

- 2 Draw 3 different size triangles in 3 different positions.

Olani thiraiengele dza 3 dza saizi dzo fhambanaho dzi kha zwivhumbeo zwa 3 zwo fhambanaho. (3)

- 3 Draw a square that has 5 cm sides.

Olani tshikwea tshi re na vhurumbu ha 5 cm. (3)

- 4 Draw a rectangle that is 6 cm long and 4 cm wide.
Olani rekhithengele i re na vhulapfu ha 6 cm na vhuphara ha 4 cm. (4)

- 5 A square, triangle, circle and rectangle are 2-D shapes. What does this mean?
Tshikwea, thiraiengele, tshitendeledzi na rekhithengele zwi na zwivhumbeo
zwa 2-D. Zwi amba mini? (1)
-

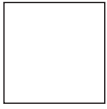
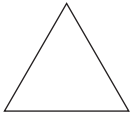

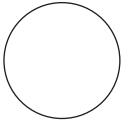
Written Assessment Lesson 43

Ulinga ha Urwala Ngudo ya 43

1 Complete this table.

Fhedzisani thebulu:

(12)

	Name of shape Dzina la tshivhumbeo	Number of sides Tshivhalo tsha vhurumbu	Round/straight? Tshipulumbu/ tswititi
a 			
b 			
c 			
d 			

2 Draw 3 triangles. Each one must look different.

Olani thiraiengele dza 3. Dzothe dzi vhonele dzo fhambana.

(3)

3 Draw the line of symmetry into the shape below:

Talani mutalo wa ndinganahuvhili kha tshivhumbeo tshi re afho fhasi.

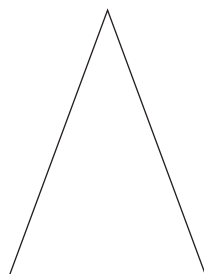
(1)



4 Draw the line of symmetry in the triangle.

Talani mutalo wa ndinganahuvhili kha thiraiengele.

(1)



Written Assessment Lesson 49

Ulinga ha Urwala Ngudo ya 49

- 1 Draw the next shape in this pattern:

Olani tshivhumbeo tshi no tevhela kha phetheni iyi:

(1)



- 2 Draw and extend a pattern in which the sizes of the shapes increase.

Olani na u engedza phetheni ine khayi saizi dza zwivhumbeo dza engedzea. (3)

- 3 Make your own pattern using circles and squares.

Itani phetheni ya inwi muṅe ni tshi shumisa zwitendeledzi na zwickwea. (3)

- 4 Use three squares to draw a pattern. The size of the squares need to change in a regular way. Draw the pattern 2 times.

Shumisani zwickwea zwiraru kha u ola phetheni. Saizi ya zwickwea i tea u shanduka nga ṅdila yo ḡowelwaho/ya misi yoṭhe. Olani iyi phetheni kavhili. (3)