# MATHEMATICS

# Grade 3

# English/ Sepedi

# Teacher's Resource Pack

## 2019 TERM 2

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# 1 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.*
*Le ke lenaneo la didirišwa tša mmetse tšeo o tlogo di hloka mo kotareng ye. O swanetše go netefatša go re o na le tšona ge o swaragane le dithutišo tšeo di loketšego go šomišwa le tšona.*


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### 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.

### DIDIRIŠWA TŠA TŠATŠI KA TŠATŠI TŠA GO RUTA

Go na le didirišwa tše dingwe gape tšeo di sego molaong (dimakasine tša kgale, diripana tša dithapo, ditshetlana tša pampiri, bjbj.) tšeo o ka di hlokago go dithutišo tše dingwe. O swanetše go ntšha mahlo dinameng go lenaneo la didirišwa tšeo o di hlokago go thutišo ye nngwe le ye nngwe; lenaneo le le filwe ka peakanyong ya dithutišo tša letšatši le lengwe le le lengwe. Itokiše, gore o kgone go ba le didirišwa tšeo di hlokegago tša dithutišo letšatši le lengwe le le lengwe.

# 1 Multiplication table (lesson 1 and other)

## Tafola ya go atiša (thuto ya 1 le tše dingwe)

| | 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 |

| | | |
|---|---|---|
| 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 |

| | | |
|---|---|---|
| 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 |

| | | |
|---|---|---|
| 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 |

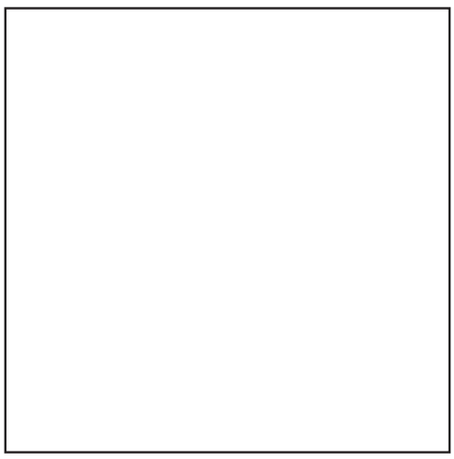
## 5 Array diagram (lesson 2 and other)

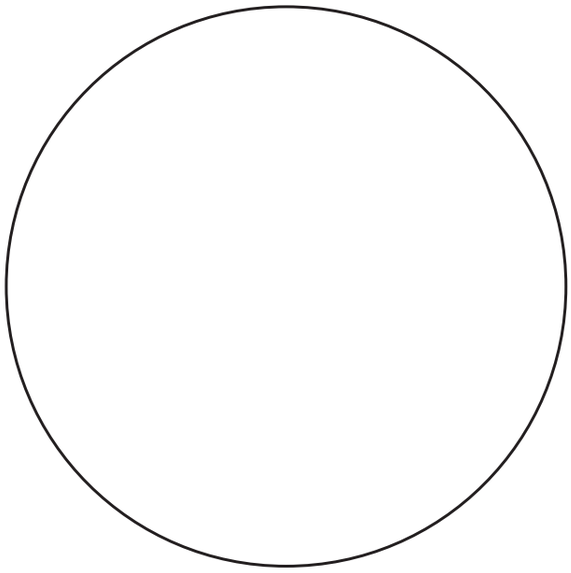
Taekramo ya tokologanyo (thuto ya 2 le tše dingwe)

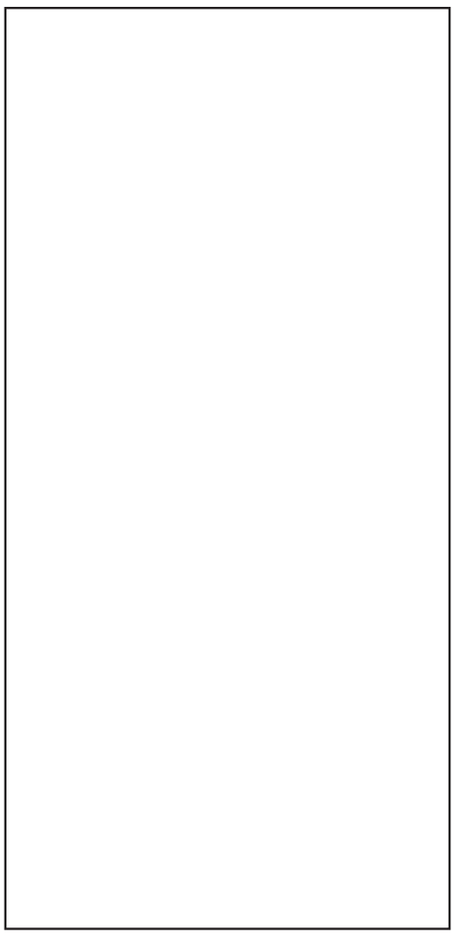
| Array diagram for multiplication table | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 1 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| 2 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| 3 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| 4 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| 5 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| 6 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| 7 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| 8 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| 9 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| 10 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |

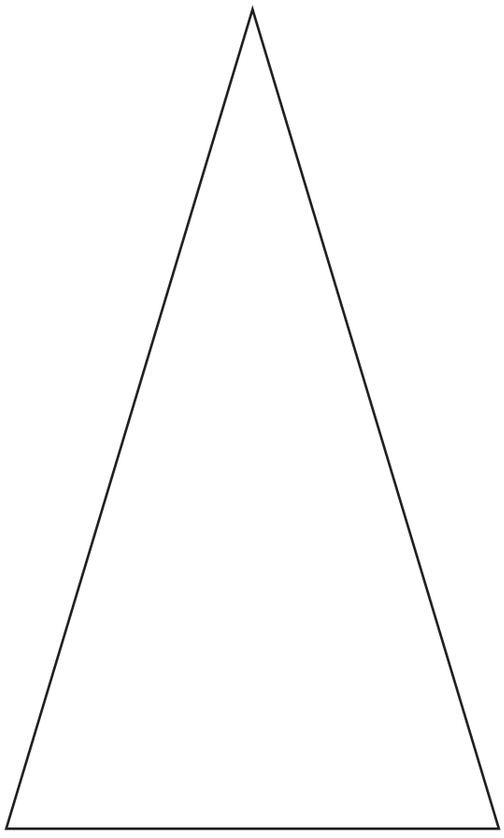
# 6 Shape cut outs (1) (lesson 38)

## Diripa tša sebopego (1) (thuto ya 38)









## 7 Shape name cards (lesson 38 and 39)

rectangle

triangle

circle

square

## 8 Dikarata tša maina a dibopego (Thuto ya 38 le 39)

khutlonnethwi

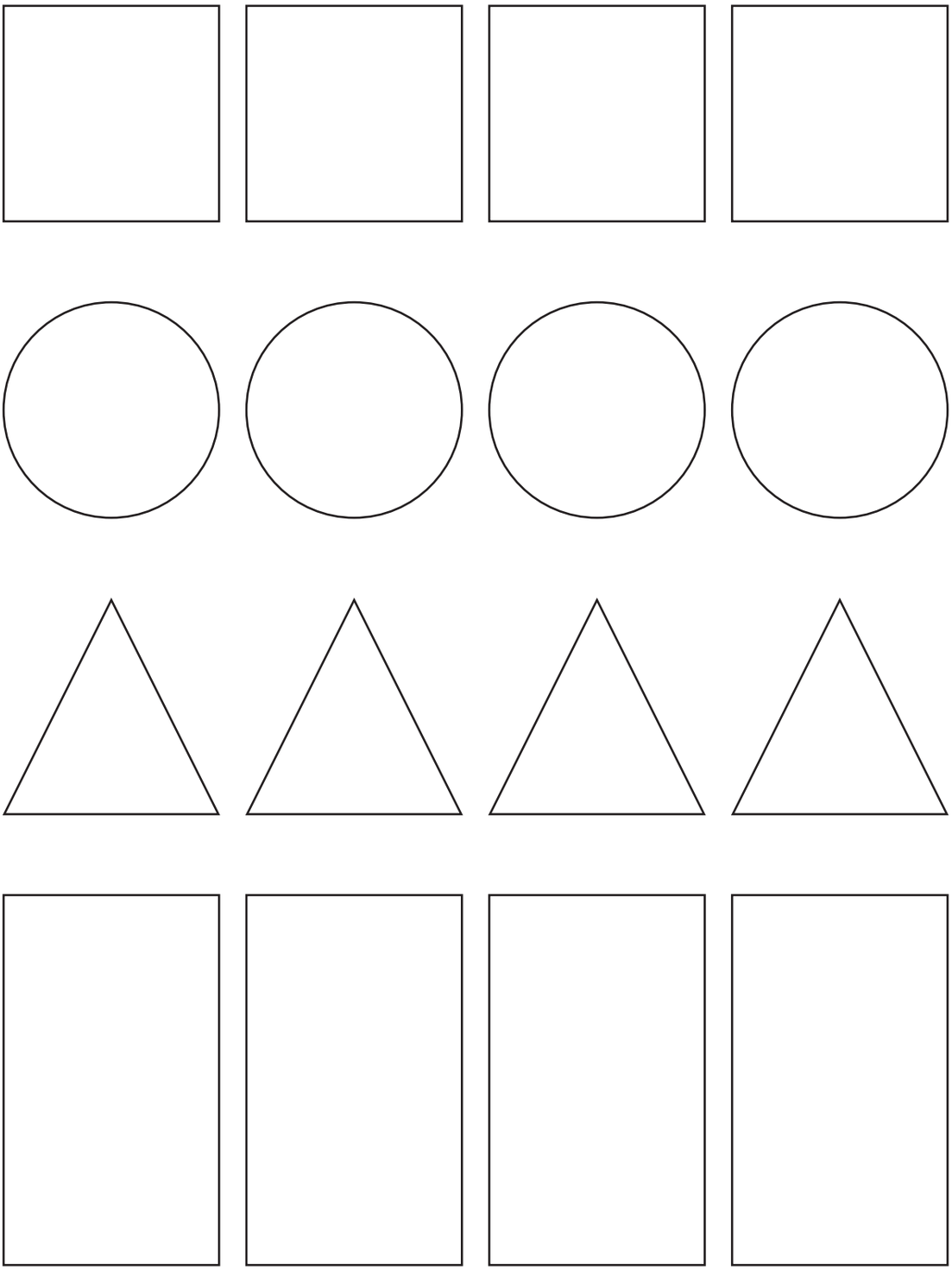
khutlotharo

sediko

sekwere

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

## Diripa tša sebopego (2) (thuto ya 39, 44, 47)



# 2 Written assessments

## Written Assessment Lesson 8

## Kelo ya go Ngwalwa Thuto ya 8

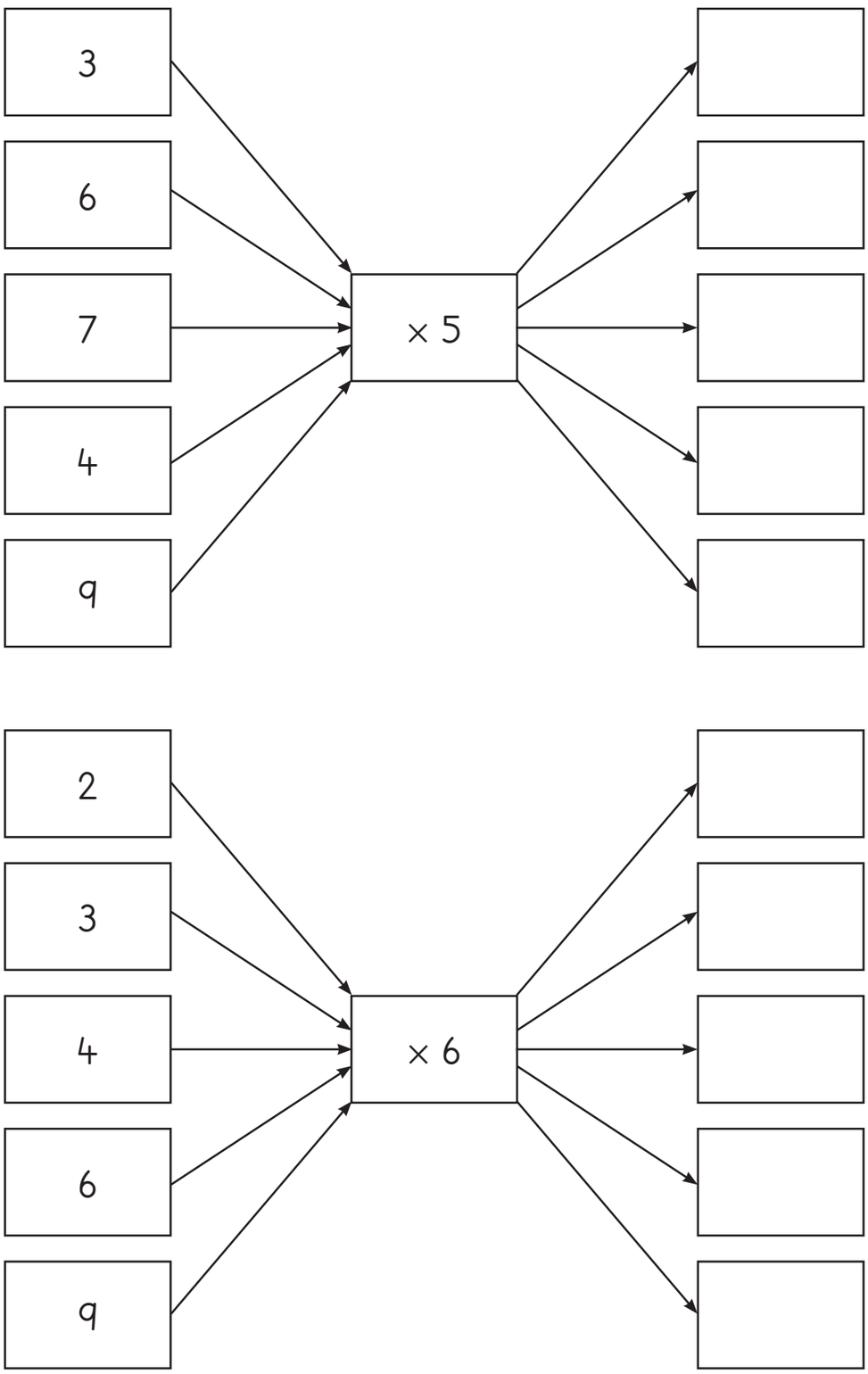
1 Complete the table:

Feleletša tafola: (17)

| | Multiplication<br>Katišo | Repeated addition<br>Tlhakantšhapoeletšo | Answer<br>Karabo |
|---|---|---|---|
| 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:

Feleletša ditaekramo tša go ela: (10)

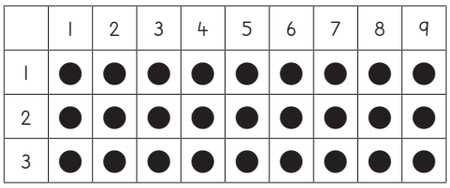
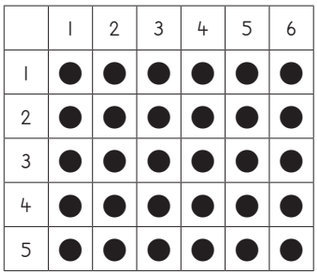


# Written Assessment Lesson 16

# Kelo ya go Ngwalwa Thuto ya 16

1 Write the number sentences with answers:

Ngwala mafokopalo le dikarabo: (5)

| | | Number sentence<br>Lefokopalo |
|---|---|---|
| a |  | |
| b |  | |
| c | 7 groups of 2<br>Dihlopha tše 7 tša 2 | |
| d | 3 groups of 8<br>Dihlopha tše 3 tša 8 | |
| e | 6 groups of 5<br>Dihlopha tše 6 tša 5 | |

2 Write the number sentences with answers:

Ngwala mafokopalo le dikarabo: (4)

| | Repeated addition<br>Tlhakantšhapoeletšo | Number sentence<br>Lefokopalo |
|---|---|---|
| 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:

Balela ka go pedifatša: (5)

| | Multiple<br>Katišanetšwa | Double<br>Pedifatša | Add<br>Hlakantšha | Answer<br>Karabo |
|---|---|---|---|---|
| a | 2 × 21 | 20 + 1 + 20 + 1 | 40 + 2 | |
| b | 2 × 36 | | | |
| c | 2 × 47 | | | |

4 Solve the problems.

Rarolla marara: (2 x 3 = 6)

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

Tetelo o na le magapi a 21.
O hwetša magapi a mangwe gape a 21.
Na o na le magapi a makae gabjale?

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

Lindo o na le 45 ya dimabole.
O thopa dimabole tše dingwe gape tše 46.
Na o na le dimabole tše kae gabjale?

# Written Assessment Lesson 21

# Kelo ya go Ngwalwa Thuto ya 21

1 Calculate:

Balela: (8)

| | | |
|---|---|---|
| a | 10 × 7 = | |
| b | 10 × 2 = | |
| c | 3 × 10 = | |
| d | 5 × 10 = | |
| e | 10 × 10 = | |
| f | 9 × 10 = | |
| g | 1 × 10 = | |
| h | 10 × 5 = | |

2 Complete the table:

Feleletša tafola: (10)

| | | Repeated addition<br>Tlhakantšhapoeletšo | Number sentence<br>Lefokopalo |
|---|---|---|---|
| a | 4 groups of 6<br>Dihlopha tše 4 tša 6 | | 4 × 6 = 24 |
| b | 2 groups of 4<br>Dihlopha tše 2 tša 4 | 4 + 4 | |
| c | | 10 + 10 + 10 | 3 × 10 = 30 |
| d | 5 groups of 7<br>Dihlopha tše 5 tša 7 | | |
| e | 10 groups of 6<br>Dihlopha tše 10 tša 6 | 6 + 6 + 6 + 6 + 6 + 6 + 6 + 6 + 6 + 6 | |
| f | 4 groups of 9<br>Dihlopha tše 4 tša 9 | | 4 × 9 = 36 |
| g | | 5 + 5 + 5 + 5 + 5 + 5 + 5 + 5 | |
| h | 9 groups of 8<br>Dihlopha tše 9 tša 8 | 8 + 8 + 8 + 8 + 8 + 8 + 8 + 8 + 8 | |

# Written Assessment Lesson 24

# Kelo ya go Ngwalwa Thuto ya 24

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

Thala mothalo magareng ga mafokopalo ao a fago karabo ya go swana: (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:

Šomiša tafola ya gago ya katišo go hwetša dipalo tšeo di tlogetšwego: (6)

| | | Answer<br>Karabo |
|---|---|---|
| a | ☐ × 5 = 35 | |
| c | 7 × ☐ = 28 | |
| e | ☐ × 2 = 14 | |

| | | Answer<br>Karabo |
|---|---|---|
| b | 6 × ☐ = 36 | |
| d | ☐ × 8 = 72 | |
| f | 5 × ☐ = 30 | |

3 Draw an array diagram to show:

Thala taekramo ya tokologanyo go laetša: (4)

| | Multiple<br>Katišanetšwa | Array<br>Tokologanyo |
|---|---|---|
| a | 3 × 2 | |
| b | 2 × 3 | |
| c | 5 × 1 | |
| d | 1 × 5 | |

# Written Assessment Lesson 31

# Kelo ya go Ngwalwa Thuto ya 31

1 Write half past 7 in digital time.

Ngwala seripagare go tšwa go iri ya 7 ka nako ya sešupanako sa panyapanya. (1)

_____

2 Write quarter to 9 in digital time.

Ngwala kotara go ya go iri ya 9 ka nako ya sešupanako sa panyapanya. (1)

_____

3 Circle the clock that shows quarter past two.

Thala sediko go sešupanako seo se laetšago kotara go tšwa go iri ya bobedi. (1)

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

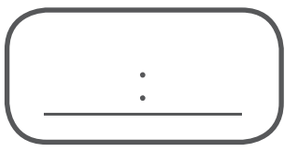
Thala manakana godimo ga dišupanako tša manakana go laetša seripagare go tšwa go iri ya 3 mathapama. (2)

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

Laetša kotara go ya go iri ya 10 godimo ga sešupanako sa manakana le sa panyapanya. (3)

a

b



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

Na go fetile nako ye kaakang magareng ga iri ya 2 le seripagare go tšwa go iri ya bone mathapama? (2)

# Written Assessment Lesson 37

# Kelo ya go Ngwalwa Thuto ya 37

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

Square, circle, rectangle, triangle

Thala sediko go dibopego tšeo di nago le mahlakore a nkgokolo.

Sekwere, sediko, khutlonnethwi, khutlotharo

2 Draw 3 different size triangles in 3 different positions.

Thala dikhutlotharo tše 3 tša bogolo bja go fapafapana maemong a 3 a go fapafapana. (3)

3 Draw a square that has 5 cm sides.

Thala sekwere sa go ba le mahlakore a disentimetara tše 5. (3)

4 Draw a rectangle that is 6 cm long and 4 cm wide.

Thala khutlonnethwi ya botelele bja disentimetara tše 6 le bophara bja disentimetara tše 4. (4)

5 A square, triangle, circle and rectangle are 2-D shapes. What does this mean?

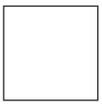
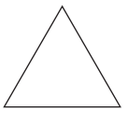
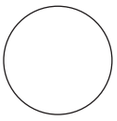
Sekwere, khutlotharo, sediko le khotlonnethwi ke dibopego tša mahlakore-pedi (2-D). Na se se ra go reng? (1)

# Written Assessment Lesson 43

# Kelo ya go Ngwalwa Thuto ya 43

1 Complete this table.

Feleletša tafola ye: (12)

| | Name of shape<br>Leina la sebopego | Number of sides<br>Palo ya mahlakore | Round/straight?<br>Nkgokolo/thwi? |
|---|---|---|---|
| a  | | | |
| b  | | | |
| c | | | |
| d  | | | |

2 Draw 3 triangles. Each one must look different.

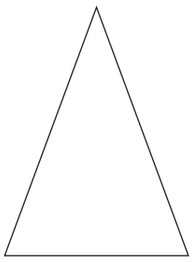
Thala dikhutlotharo tše 3. Ye nngwe le ye nngwe e fapane le tše dingwe. (3)

3 Draw the line of symmetry into the shape below:

Thala mothalo wa go ripa gare ka go lekana ka gare ga sebopego sa ka tlase: (1)

4 Draw the line of symmetry in the triangle.

Thala mothalo wa go ripa gare ka go lekana ka gare ga khutlotharo. (1)



# Written Assessment Lesson 49

# Kelo ya go Ngwalwa Thuto ya 49

1 Draw the next shape in this pattern:

Thala sebopego seo se latelago ka gare ga patrone ye: (1)

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

Thala o be o katološe patrone yeo bogolo bja dibopego tša yona bo oketšago. (3)

3 Make your own pattern using circles and squares.

Dira patrone ya gago o šomiša didiko le dikwere. (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.

Šomiša dikwere tše tharo go thala patrone. Bogolo bja dikwere bo swanetše go fetoga ka tsela ya go tlwaelega. Thala patrone ga 2. (3)