# MATHEMATICS Grade 4 English Learner Activity BOOK **2020 TERM 3**

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### Introduction

This Learner Activity Book has numbered daily activities for classwork and homework for all the lessons in Term 3. The activities correspond to the activities in the Lesson Plans.

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Answers to the activities can be written in this book.

If learners work systematically through these mathematics activities, they will cover the whole curriculum. These activities are planned as a fun way to help learners to acquire the prescribed mathematics knowledge and skills.

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## Lesson 1: Multiplication properties (1)

#### **Mental maths**

		Answer			Answer
1	2 × 7 =		6	3 × 7 =	
2	5 × 7 =		7	9 × 7 =	
3	8 × 7 =		8	1 × 7 =	
4	6 × 7 =		9	7 × 7 =	
5	10 × 7 =		10	4 × 7 =	

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#### **Array Diagram**

Learner's Activity Book 1

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Lesson 1: Multiplication properties (1)

#### Activity 1

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Work with your partner

- **1** Set 5 × 7 on the array diagram.
  - **a** How many counters in this array?

**b** Write the number sentence and answer for this array.

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- **2** Set 7 × 5 on the array diagram.
  - **a** How many counters in this array?
  - **b** Write the number sentence and answer for this array.

**3** Compare the two answers: What do you notice?

**2** Grade 4 Mathematics

4 Use your array diagram to show your partner that the answer to  $3 \times 7$  is the same as the answer to  $7 \times 3$ .

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- 5 Write a conclusion by crossing out the part that is not true:When we multiply two numbers, the order does / does not matter.
- 6 Prudence and Joe are planting tomatoes.Prudence planted her tomatoes in six rows of four tomatoes.Joe planted his tomatoes in four rows of six tomatoes.

		Prudence's vegetable garden	Joe's vegetable garden
а	Draw an array to show each person's vegetable garden		
b	Write a number sentence to show how to work out how many tomatoes they each have planted.		
C	How many tomatoes did each person plant?		

**d** Explain why the answers in **c**. are the same.

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Learner's Activity Book **3** 

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**1.** Complete the 10 × 10 multiplication table.

×	1	2	3	4	5	6	7	8	9	10
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										

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- **2** On the multiplication table, shade the block showing the answer to  $6 \times 9 = \Box$ On the multiplication table, shade the block showing the answer to  $9 \times 6 = \Box$ What do you notice? Why
- On the multiplication table, draw a dark line around the block showing the answer to 8 × 5 = □
  On the multiplication table, draw a dark line around the block showing the answer to 5 × 8 = □
  What do you notice? Why

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**4** Grade 4 Mathematics

Use brackets to show how you will group the numbers to make the calculation easier.

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Then calculate each answer.

 $1 \quad 8 \times 5 \times 2 = \square$   $9 \times 50 \times 2 = \Box$   $6 \times 4 \times 25 = \Box$  $13 \times 5 \times 2 = \Box$ 

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Learner's Activity Book 5

#### **5** $25 \times 19 \times 4 = \square$

#### HOMEWORK

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**1.** Fill in the missing numbers to make each number sentence true.

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- **a.** 3 × 6 = \_\_\_\_ × 3
- **b.** \_\_\_\_ × 7 = 7 × 8
- **c.** \_\_\_\_ × 100 = 100 × 9
- Use brackets to show how you will group the numbers to make the calculation easier. Calculate each answer.

**a.**  $17 \times 2 \times 5 = \Box$ 

**b.**  $23 \times 4 \times 25 = \Box$ 

**6** Grade 4 Mathematics

## Lesson 2: Multiplication properties (2)

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#### **Mental maths**

Complete this flow diagram.



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Work with your group to draw arrays to find the answer. Then do the working out.

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		Array diagram	Working out
1	FIRST WAY a Find the number of pieces of chalk in each box.		Number of pieces of chalk in each box
	<b>b</b> Then find the total number of pieces of chalk.		Total number of pieces of chalk
2	SECOND WAY a Find the total number of pieces of each colour chalk.		Number of pieces of white chalk in the 5 boxes Number of pieces of yellow chalk in the 5 boxes
	<b>b</b> Find the total number of pieces of chalk		Total number of pieces of chalk

8 Grade 4 Mathematics

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- 1 What do the brackets in a number sentence tell us?
- **2** Find the answers to the first number sentence and the second number sentence.

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Then compare the answers.

	1st number sentence	Answer to 1st number sentence	2nd number sentence	Answer to 2nd number sentence	Two answers the same or different?
а	4 × (3 + 5) = □		$(4 \times 3) + (4 \times 5) = \square$		
b	6 × (4 + 1) = □		$(6 \times 4) + (6 \times 1) = \Box$		
С	(8 × 3) + (8 × 4) = □		8 × (3 + 4) = 🗆		
d	(7 × 4) + (7 × 5) = □		7 × (4 + 5) = 🗆		

#### Activity 3

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What do the brackets in a number sentence tell us?

- **1.** 3 × (2 + 4) = ( \_\_\_\_\_ × 2) + ( \_\_\_\_\_ × 4) = \_\_\_\_\_
- **2.** 7 × (3 + 5) = (7 × \_\_\_\_\_) + (7 × \_\_\_\_\_) = \_\_\_\_\_

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- **3.** (9 × 4) + (9 × 5) = \_\_\_\_ × (4 + 5) = \_\_\_\_ × 9 = \_\_\_\_
- **4.** (8 × 2) + (8 × 6) = \_\_\_\_ × (2 + 6) = \_\_\_\_ × 10 = \_\_\_\_

Learner's Activity Book 9

#### HOMEWORK

Match the calculation in the first column with the calculation that would give the same answer in the second column.

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Column A	Column B
	(9 + 5) × (9 + 2)
9 × (5 + 2)	
	4 + (3 × 6)
	(9 × 5) + (9 × 2)
$(4 \times 3) + (4 \times 6)$	
	4×(3+6)

**10** Grade 4 Mathematics

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## Lesson 3: Multiplication using the column method

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#### **Mental maths**

		Answer			Answer
1	3 × 7 =		6	1 × 7 =	
2	6 × 7 =		7	5 × 7 =	
3	7 × 7 =		8	9 × 7 =	
4	4 × 7 =		9	2 × 7 =	
5	0 × 7 =		10	10 × 7 =	

#### Link to previous lesson

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There are 6 families. Each family has 4 cows and 3 goats. How many animals are there altogether?

Draw a diagram to show how you find the answers.

Learner's Activity Book 11

Use the column method to find the answer.

**1** 12 × 2 = □



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**5** 32 × 4 = □





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**12** Grade 4 Mathematics

#### Activity 3

Use the column method to find the answer.

1. There are <u>11</u> trucks.

Each truck has <u>6</u> wheels.

How many wheels are there altogether?

**a.** Write the number sentence.



**b.** Do the calculation. Use the column method.

		-	•
	н		0
		-	-
••••••			
••••••			
••••••			
••••••			
••••••			
	*		

**c.** Write the answer:

There are \_\_\_\_\_\_ wheels altogether.

Learner's Activity Book **13** 

Lesson 3: Multiplication using the column method

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- Zami bought <u>31</u> packets of balloons for a party.
  There were <u>5</u> balloons in each packet.
  How many balloons did Zami buy?
  - **a.** Write the number sentence.
  - **b.** Do the calculation.



**c.** Write the answer:

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Zami bought \_\_\_\_\_ balloons.

**14** Grade 4 Mathematics



#### HOMEWORK

Use the column method to calculate the answers:

**1** 22 × 3 = □



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**3** 30 × 3 = □

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**4** 43 × 2 = □



Learner's Activity Book **15** 

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### Lesson 4: Multiplying a 2-digit number by a 1-digit number

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#### **Mental maths**

		Answer			Answer
1	3 × 8 =		6	1 × 8 =	
2	6 × 8 =		7	8 × 8 =	
3	9 × 8 =		8	2 × 8 =	
4	4 × 8 =		9	10 × 8 =	
5	7 × 8 =		10	5 × 8 =	

#### Link to previous lesson

Do this calculation:

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#### Activity 1

Work with your partner. Do the calculation.

#### **1** 45 × 3 = □

	Η	Т	0
		4	5
×			3
	-		

#### Activity 2

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Use the column method and find the answer.

**1** 13 × 5 = □

**2** 70 × 6 = □





Learner's Activity Book 17

52 × 9 = □

- 32 × 8 = □
  - H T O



56 × 8 = □









67 × 8 = □

16 × 7 = □



Grade 4 Mathematics

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1. There are <u>7</u> players in a netball team.

How many players are there in 23 netball teams?

Number sentence: \_\_\_\_\_\_

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••••••		 
••••••		 
	:	

Answer: There are \_\_\_\_\_ players in 23 teams.

2. Thapelo sells potatoes for R26 per bag.

How much money will he have if he sells 9 bags of potatoes?

Number sentence: \_\_\_\_\_

		Ŧ	•
	п	I	U
<u>.</u>			

Answer: Thapelo will have R \_\_\_\_\_\_.

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#### HOMEWORK

Use the column method and find the answers.

23 × 4 = □

34 × 6 = □





71 × 8 = □

45 × 7 = □

Н	Т	0

Grade 4 Mathematics

### Lesson 5: Multiplying by a 2-digit number (1)

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#### **Mental maths**

Complete this flow diagram.



#### Link to previous lesson

Do this calculation:

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#### Activity 1

Work with your partner to find the answers. You buy bananas at 15 cents each.

1. If you buy 4 bananas, how much will it cost?

Write a number sentence to show how you work this out:

Do the calculation:

			;
	Η	Т	0
••••••			
••••••			
•••••			
••••••			

Write down the answer: 4 bananas will cost \_\_\_\_\_ cents)

2. If you buy 40 bananas, how much will it cost?

Write a number sentence to show how you work this out:

Do the calculation:

 $40 \times 15$  can be solved by like this:  $(4 \times 15) \times 10$ , because  $40 = 4 \times 10$ 

So,  $40 \times 15 = (4 \times 15) \times 10$ 

=\_\_\_\_\_×10

= \_\_\_\_\_

Write down the answer: 40 bananas will cost \_\_\_\_\_\_ cents.

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**22** Grade 4 Mathematics



#### Activity 2

**1.** Calculate: 41 × 20 = □



So, 41 × 20 = \_\_\_\_\_

**2.** Calculate: 23 × 30 = □

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**3.** Calculate: 35 × 20 = □

 $35 \times 20$  can be solved like this: ( $35 \times \_$ \_\_)  $\times 10$ 



So, 35 × 20 = \_\_\_\_\_

		_	
	H	Т	0
		3	5
×			2

Learner's Activity Book 23

	Η	Т	0
		2	3
×			3

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Lesson 5: Multiplying by a 2-digit number (1)

**4.** Calculate: 76 × 40 = □

 $76 \times 40$  can be solved like this: ( $76 \times \_$ \_\_\_)  $\times 10$ 

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So, 76 × 40 = \_\_\_\_\_

#### HOMEWORK

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24 Grade 4 Mathematics

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## Lesson 6: Multiplying by a 2-digit number (2)

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#### **Mental maths**

		Answer			Answer
1	0 × 8 =		6	10 × 8 =	
2	2 × 8 =		7	9 × 8 =	
3	4 × 8 =		8	3 × 8 =	
4	6 × 8 =		9	5 × 8 =	
5	8 × 8 =		10	7 × 8 =	

#### Link to previous lesson

Calculate  $28 \times 30 = \Box$ .

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Use the column method and find the answer.

21 × 13 = □

12 × 17 = □





42 × 15 = □



H T O

69 × 11 = □



32 × 23 = □

28 × 21 = □

н	Т	0
 <u>:</u>		

Grade 4 Mathematics

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**1.** There are <u>12</u> cows.

Each cow produces <u>15</u> litres of milk per day. How many litres are produced altogether?

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**a.** Write the number sentence.



**b.** Do the calculation. Use the column method.

		:	
	н	Т	0
	••	•	•
•••••			
•••••			
••••••		•••••••••••••••••••	

**c.** Write the answer:

litres of milk are produced altogether.

Learner's Activity Book 27

Lesson 6: Multiplying by a 2-digit number (2)

Mrs Ndlovu sells cupcakes for R<u>12</u> each.
 How much money will she get if she sells 25 cupcakes?

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- **a.** Write the number sentence.
- **b.** Do the calculation.



**c.** Write the answer:

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Mrs Ndlovu will get \_\_\_\_\_

**28** Grade 4 Mathematics

#### HOMEWORK

Use the column method. Calculate the answers.

**1** 35 × 21 = □

**2** 22 × 13 = □

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Н	Т	0



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## Lesson 7: Multiplying by a 2-digit number (3)

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#### **Mental maths**

		Answer			Answer
1	10 × 9 =		6	1 × 9 =	
2	6 × 9 =		7	9 × 9 =	
3	4 × 9 =		8	5 × 9 =	
4	0 × 9 =		9	8 × 9 =	
5	7 × 9 =		10	3 × 9 =	

#### Link to previous lesson

Calculate  $28 \times 31 = \Box$ .

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Н	Т	0

**30** Grade 4 Mathematics

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Work with your partner to find the answer.

Maria buys <u>18</u> airtime bundles to sell in her shop.

Each bundle costs R<u>48</u>.

How much must Maria pay?

Let's find a way of calculating this:

- Divide the airtime bundles into 10 bundles and 8 bundles.
- 10 airtime bundles will cost: 10 × 48

=	

8 airtime bundles will cost:

8 × 48 =	

Total

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Maria must pay R \_\_\_\_\_

Let's see how we can do this in one calculation:

Th	Н	Т	0

Learner's	Activity	Book	31

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Eor	$c \rightarrow$		latin	σ٠
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н

Т

Use the column method to do each calculation.

**1.** 20 × 78 = □



Th

Н

Т

0

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Th	Η	Т	0

**4.** 64 × 57 = □

	Th	Η	Т	Ο
••••••	••••••	•••••••	••••••••	•••••••

**5.** 35 × 29 = □



**32** Grade 4 Mathematics

**6.** 47 × 48 = □

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Th	Н	Т	0

**7.** 26 × 98 = □





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#### HOMEWORK

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Use the column method to do each calculation.

	Th	Н	Т	0		Th	Н	Т	0
			4	1			<u>.</u>	3	7
×			4	9	×			5	2

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# Lesson 8: Multiplying by a 2-digit number (4)

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#### **Mental maths**

		Answer			Answer
1	5 × 9 =		6	4 × 9 =	
2	10 × 9 =		7	1 × 9 =	
3	2 × 9 =		8	6 × 9 =	
4	9 × 9 =		9	7 × 9 =	
5	3 × 9 =		10	8 × 9 =	

#### Link to previous lesson

Calculate  $49 \times 23 = \Box$ 

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Th	Н	Т	Ο

**34** Grade 4 Mathematics

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**1** Use any method.

One desk measures <u>68</u> cm across.



How much will it measure if 12 desks are placed together like this:

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- a. Write the number sentence: \_
- **b.** Do the calculation

**2** Use any method to calculate the following.

**a** 38 × 20 = □ **b** 46 × 18 = □

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**c** 28 × 32 = □

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**d** 99 × 60 = □

**36** Grade 4 Mathematics

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#### Activity 2

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Use any method to find the answers.

- There are <u>18</u> books in a box.
  One book costs R<u>25</u> litres of milk per day.
  - a. How much will one box of books cost?



18 books in a box

**b.** What will four boxes of books cost?

- A farmer packed seeds in packets.
  Each packet contains <u>18</u> seeds.
  - a. How many seeds are there in 32 packets?



18 seeds in each packet

b. Each packet of seeds is R<u>25</u>.How much money will she have if she sells all the packets of seeds?

Learner's Activity Book 37

Lesson 8: Multiplying by a 2-digit number (4)

- **3.** There are <u>96</u> pages in one book.
  - **a.** How many pages will there be in 12 books?

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96 pages in each book

**b.** How many pages will there be in 120 books?



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Lesson 8: Multiplying by a 2-digit number (4)

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#### HOMEWORK

Use any method to calculate.

**1.** 42 × 23 = □

**2.** 56× 34 = □

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Learner's Activity Book **39** 

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## **Lesson 9: Consolidation**

**1** Fill in the multiplication facts:

×	2	5	4	8	3	1	6	10	9	7
7										
9										
8										

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2 There are 7 rows with 10 dots in this array diagram.

Draw a circle around the number sentence you would use to find how many dots there are altogether.

**a** 10 + 7 =

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- **b**  $7 \times 8 = \Box$
- **c**  $7 \times 10 = \Box$
- **d** 7 × 9 = □



**3** I have 3 bunches of flowers.

In each bundle there are 4 white flowers and 5 yellow flowers. How many flowers do I have altogether?

- **a.** Draw a diagram to show the multiplication.
- **b.** Write down a number sentence and use it to calculate the total number of flowers.

**40** Grade 4 Mathematics

#### **4** Calculate:

а

	Th	Η	Т	0
			2	9
×			3	7

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b

d

f

	Th	Н	Т	0
			4	7
×			2	2
		•		
		-		

С

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	Th	Н	т	Ο
			1	8
×			5	0

Th Н Т 0 3 6 5 4 Х

e

	Th	Н	т	0
			7	2
×			5	7
••••••	••••••	••••••	••••••	••••••

Th Н Т 0 8 8 3 2  $\times$ 

Learner's Activity Book **41** 

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Lesson 9: Consolidation

- **5** Use any method to calculate the following:
- **a** 31 × 23 = □ **b** 25 × 47 = □

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**c** 37 × 20 = □

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**d** 73 × 50 = □

**42** Grade 4 Mathematics

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# Lesson 10: Area

#### **Mental maths**

		Answer			Answer
1	7 × 2 =		6	9 × 7 =	
2	2 × 3 =		7	7 × 8 =	
3	9 × 4 =		8	4 × 10 =	
4	6 × 5 =		9	9 × 0 =	
5	8 × 6 =		10	8 × 1 =	

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#### Link to Grade 3 work on area



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## Nomsa's vegetable garden

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Nomsa has planted a bed of spinach, a bed of beans and a bed of carrots.



**44** Grade 4 Mathematics

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**1.** Count the number of squares in each vegetable bed:

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How many squares are there in the bed of spinach?

How many squares are there in the bed of beans?

How many squares are there in the bed of carrots?

- 2. Write the vegetables in order from biggest area (space) to smallest area.
- **3.** Which method do you think is the most accurate: guessing, overlapping or finding the number of squares? Explain your answer.

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Lesson 10: Area

#### Activity 2

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Find the area of each polygon by counting the squares.



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- Area of A = \_\_\_\_\_ squares
- Area of B = \_\_\_\_\_ squares
- Area of C = \_\_\_\_\_ squares
- Area of D = \_\_\_\_\_ squares
- Area of E = \_\_\_\_\_ squares

**46** Grade 4 Mathematics

On the grid below, draw three different shapes that have an area of 16 squares. You may use whole squares and half squares.

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#### HOMEWORK





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48 Grade 4 Mathematics

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# Lesson 11: Using square units to measure area

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#### **Mental maths**

		Answer			Answer
1	8 × 5 =		6	6 × 4 =	
2	7 × 9 =		7	4 × 7 =	
3	8 × 8 =		8	9 × 2 =	
4	2 × 10 =		9	8 × 6 =	
5	8 × 3 =		10	10 × 1 =	

#### Link to previous lesson

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The square has been divided into two parts. Do the two parts have the same area?

Give a reason for your answer.



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Use your ruler. Measure the sides of the shaded square.

Write the measurement (in cm) on sides **a** and **b**.



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What is the area of rectangle B and what is the area of rectangle B in square centimetres (cm<sup>2</sup>)?



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**1.** What is the area of each shape in cm<sup>2</sup>?



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The area of:

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Shape A = \_\_\_\_\_ cm<sup>2</sup>

Shape B = \_\_\_\_\_ cm<sup>2</sup>

Shape C =  $\_$  cm<sup>2</sup>

Shape D = \_\_\_\_\_  $cm^2$ 

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Learner's Activity Book 51

**2** Draw four different polygons. Each polygon should have an area of 6 cm<sup>2</sup>.

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	1 cm				 		 	 	 		
E											
10				•						•	:
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**52** Grade 4 Mathematics

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#### HOMEWORK

Find the area of each polygon. Give the answer in cm<sup>2</sup>.

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# Lesson 12: Calculating area (1)

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#### **Mental maths**

		Answer			Answer
1	5 × 4 =		6	9 × 5 =	
2	5 × 9 =		7	10 × 10 =	
3	6 × 6 =		8	8 × 9 =	
4	8 × 0 =		9	6 × 8 =	
5	7 × 1 =		10	3 × 9 =	

#### Link to previous lesson

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What is the area of each of the rectangles on the grid?



**54** Grade 4 Mathematics

Write the area of A, B and C. Give your answers in square centimetres. **Hint:** Count the number of 1 cm<sup>2</sup> squares in each quadrilateral.

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Count the number of 1 cm<sup>2</sup> squares in the rectangle \_\_\_\_\_

Fill in the missing numbers:

Length of the longer side × length of the shorter side

= \_\_\_\_\_ cm × \_\_\_\_\_ cm

= \_\_\_\_\_ squares

= \_\_\_\_\_ Cm<sup>2</sup>

What do you notice about your two answers? \_\_\_\_\_

Learner's Activity Book 55

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1 Calculate the area of a place mat that is 15 cm long and 30 cm wide.

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**a** Draw a rectangle and write the measurements on the drawing.

**b** Calculate the area of the place mat.

Area of placemat

- = length × breadth
- =\_\_\_\_\_
- = \_\_\_\_\_ CM<sup>2</sup>
- **2** Calculate the area of a square with sides that are 20 cm long.
  - **a** Draw a square and write the measurements on the drawing.

- **b** Calculate the area of the square.
  - Area of square
  - = length × breadth
  - =\_\_\_\_\_
  - = \_\_\_\_\_ CM<sup>2</sup>
- **56** Grade 4 Mathematics

- 3 The area of a rectangle is 80 cm<sup>2</sup>.The length of the rectangle is 10 cm.What is the breadth of the rectangle?
  - **a** Draw a rectangle and write the given measurements on the drawing.

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**b** Calculate the breadth of the rectangle.

Length × breadth = area of rectangle

#### HOMEWORK

Draw three different rectangles each with an area of 20 cm<sup>2</sup>.

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1 cm			 •			 			 •		
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**58** Grade 4 Mathematics

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# Lesson 13: Calculating area (2)

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#### **Mental maths**

		Answer			Answer
1	1 × 8 =		6	7 × 7 =	
2	2 × 5 =		7	4 × 6 =	
3	9 × 10 =		8	7 × 0 =	
4	6 × 1 =		9	4 × 8 =	
5	9 × 8 =		10	7 × 9 =	

#### Link to previous lesson

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Calculate the area of quadrilaterals A, B, C and D.



Learner's Activity Book 59

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- **1.** Find the area of a school kitchen that is 6 m long and 5 m wide.
  - a. Each square on this grid represents a square that is 1 m by 1 m. Draw a sketch of the kitchen on the grid.Fill in the measurements of the square on the grid.

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**b.** Find the area of the kitchen. Give your answer in square metres (m<sup>2</sup>).

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Area of the kitchen = length  $\times$  breadth

2. Which do you think is bigger, this kitchen or your classroom?

**60** Grade 4 Mathematics

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1. Use the formula to calculate the area of a wall.

The length of the wall is 8 metres long. The breadth of the wall is 150 cm.

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a. Fill in the measurements on this drawing of the wall.

**b.** Write down the formula for calculating the area of a rectangle:

Area of a rectangle = \_\_\_\_\_

**c.** When you calculate area, the measurements of both the length and the breadth must be in the same units.

Write 8 m in cm.

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8 m = \_\_\_\_\_ cm

**d.** Calculate the area of the wall. Make sure that both measurements are in the same unit.

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Area of classroom = length × \_\_\_\_\_

Learner's Activity Book 61

Use the formula to calculate the area of the floor of a square office.
 Each of the walls in the office is 5 metres long.

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**a.** Fill in the measurements on this drawing of the floor.



**b.** Write down the formula for calculating the area of a square:

Area of a square =	

=

=

**c.** Calculate the area of the floor in m<sup>2</sup>.

Area of floor = \_\_\_\_\_ × breadth

**d.** Calculate the area of the floor in cm<sup>2</sup>

5 m = \_\_\_\_\_ cm

Area of the floor = \_\_\_\_\_

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= \_\_\_\_\_

62 Grade 4 Mathematics

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Lesson 13: Calculating area (2)

HOMEWORK					
<b>1.</b> Calculate the area of a rectangle with a length of 9 m and a breadth of 7 m.					
Area of a rectangle = length ×					
=					
=					
<b>2.</b> Calculate the area of a square with sides of 7 m.					
Area of a square =					
=					
=					

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# Lesson 14: Calculating area (3)

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#### **Mental maths**

		Answer			Answer
1	7 × 6 =		6	8 × 7 =	
2	8 × 10 =		7	4 × 8 =	
3	8 × 9 =		8	9 × 3 =	
4	9 × 9 =		9	4 × 0 =	
5	9 × 6 =		10	6 × 5 =	

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#### Activity 1

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Work with your partner to find the area of this shape.

Use the formula for calculating the area of a rectangle and a square.



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## Activity 2

Find the area of each shape





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Learner's Activity Book **65** 

Lesson 14: Calculating area (3)





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Lesson 14: Calculating area (3)

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#### HOMEWORK

Find the area of each shape.





Learner's Activity Book 67

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# Lesson 15: Calculating area (4)

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#### **Mental maths**

		Answer			Answer
1	2 × 7 =		6	4 × 3 =	
2	6 × 9 =		7	3 × 4 =	
3	7 × 10 =		8	5 × 2 =	
4	3 × 8 =		9	7 × 5 =	
5	3 × 2 =		10	0 × 6 =	

#### Link to previous lesson

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Calculate the area of the shape. Do this by dividing the shape into rectangles.



**68** Grade 4 Mathematics

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## Activity 1

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Find the area of this shape.



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Learner's Activity Book 69

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#### Activity 2

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1 Find the area of this shape in two different ways

2 Find the area of this shape in two different ways



**70** Grade 4 Mathematics

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#### HOMEWORK

Show different ways of finding the area of this shape.

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Learner's Activity Book 71

# **Lesson 16: Consolidation**

**1** Complete the table. The sides of each small square are 1 cm long.

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Shape	Area of shaded area in squares	Area of shaded area in cm²
a		
b		
C		

**72** Grade 4 Mathematics

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	Shape	Area of shaded area in squares	Area of shaded area in cm²
d			
e			
f			

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**2** Calculate the area of each shape.

Use the formula:

Area of rectangle = length × breadth Area of square = length × breadth



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**74** Grade 4 Mathematics

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**3** Show three different ways of finding the area of this shape.

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Learner's Activity Book **75** 

## Lesson 17: Perimeter (1)

#### **Mental maths**

		Answer			Answer
1	3 + 8 =		6	9 + 8 =	
2	7 + 4 =		7	6 + 7 =	
3	9 + 7 =		8	18 + 0 =	
4	5 + 9 =		9	13 + 1 =	
5	8 + 8 =		10	4 + 8 =	

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#### Link to previous lesson

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Work with your partner to find the area of this shape.



**76** Grade 4 Mathematics

#### Activity 1

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**2** Find the perimeter by counting.

Find the perimeter of each shape. The dots are 1 cm apart. Give the answers in centimetres.



- **3** For each of these shapes:
  - **a** Use a ruler. Measure the length of each side of the shape and write it on the shape.

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**b** Find the perimeter of each shape. Give the answers in centimetres.



**78** Grade 4 Mathematics

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#### Activity 2

**1 a** Find the perimeter of this square by adding the length of each side together.

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**b.** Work with your partner.

Try to find a quicker way of working out the perimeter of the square. Write down your method.

**c.** Complete the following sentence:

Perimeter of a square = 4 × \_\_\_\_\_

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Lesson 17: Perimeter (1)

**2** Use the formula to calculate the perimeter of each square.



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#### **Activity 3**

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**1** Find the perimeter of this rectangle by adding the length of each side together.



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**80** Grade 4 Mathematics

**2.** Work with your partner.

Try to find a quicker way of working out the perimeter of the rectangle. Write down your method.

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**3.** Complete the number sentence:

Perimeter of a rectangle = 2 × \_\_\_\_\_

**4.** Use a short method to calculate the perimeter of each rectangle.



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Lesson 17: Perimeter (1)

#### HOMEWORK

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Calculate the perimeter of each shape:



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**82** Grade 4 Mathematics

# Lesson 18: Perimeter (2)

#### **Mental maths**

		Answer			Answer
1	3 + 8 =		6	9 + 8 =	
2	7 + 4 =		7	6 + 7 =	
3	9 + 7 =		8	18 + 0 =	
4	5 + 9 =		9	13 + 1 =	
5	8 + 8 =		10	4 + 8 =	

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#### Link to previous lesson

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Calculate the perimeter of the rectangle.



#### Activity 1

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Discuss the questions and answers with your partner.

**1** Use multiplication to find the perimeter of a square garden with sides of 163 metres.

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- 2 This is a regular pentagon with each side 12 cm long.A regular pentagon is a five-sided polygon with all sides of equal length.
  - **a** How can you use multiplication to find the perimeter? Describe your method.



163 m

**b** Use your method to find the answer.



**3** This is a regular hexagon with each side 40 cm long. A regular hexagon is a six-sided polygon with all sides of equal length.



**a** Explain how to find the perimeter of this regular hexagon.

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**b** Find the perimeter of this hexagon.

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Lesson 18: Perimeter (2)

### Activity 2

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Discuss the questions and answers with your partner.

**1** Find the perimeter of this shape



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2 Find the perimeter of this shape





**86** Grade 4 Mathematics

**3** Mr Malingi wants to build a wire fence around his mealie field to keep the goats out of the field.

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**a.** How many metres of wire will he need if he wants to build a fence with one strand of wire around the mealie field?



**b.** How many metres of wire will he need if he wants to build a fence with three strands of wire around the mealie field?



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Lesson 18: Perimeter (2)

#### HOMEWORK

Find perimeter of the shapes below:

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# Lesson 19: Relationships between area and perimeter

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#### **Mental maths**

		Answer			Answer
1	16 - 3 =		6	15 – 6 =	
2	14 - 6 =		7	15 – 5 =	
3	11 - 10 =		8	18 – 9 =	
4	13 – 7 =		9	13 – 9 =	
5	17 – 9 =		10	12 - 11 =	

#### Link to previous lesson

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Find the perimeter of the rectangle.



90 Grade 4 Mathematics

#### Activity 1

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Farmer Sizwe is measuring out a new vegetable garden on his farm.

He wants the garden to have an area of 25 m<sup>2</sup>.

The garden could have different shapes, but he wants it to be a rectangle that will need the shortest length of fencing.

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1. What two numbers give 25 when multiplied together?

#### **2.** Draw the gardens on the squared paper.

	1 m													
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Lesson 19: Relationships between area and perimeter

**3.** Work out the perimeter of each garden.

**4.** Which size garden has the smallest perimeter and so will need the shortest length of fencing?

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**92** Grade 4 Mathematics

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Lesson 19: Relationships between area and perimeter

## Activity 3

Find the perimeter and the area of each of the following squares

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1	Square with sides of 1 cm	Perimeter =
		Area =
2	Square with sides of 2 cm	Perimeter =
		Area =
3	Square with sides of 3 cm	Perimeter =
		Area =

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Learner's Activity Book **93** 

Lesson 19: Relationships between area and perimeter

#### HOMEWORK

1 Draw three rectangles:

Each rectangle should have an area of 16 cm<sup>2</sup>.

One of the rectangles must be a square. Remember a square is a special kind of rectangle.

•								• • • • •	
•									
•								• • • • •	
								•	
									1 cm
								1 C	

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**2** Calculate the perimeter of each rectangle.

**3** Which rectangle has the longest perimeter?

**94** Grade 4 Mathematics

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## **Lesson 20: Consolidation**

1 Thato says that if he runs along all four sides of the soccer field, he is running the <u>area</u> of the soccer field.

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- a Is Thato correct?
- **b** Draw a diagram to explain your answer.

- 2 Sam says that if he tiles the kitchen floor, he is tiling the <u>perimeter</u> of the floor.
  - a Is Thato correct?
  - **b** Draw a diagram to explain your answer.

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**3** Match the measurement with the units of measurement.

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Measurement	Unit
Dorimotor	cm
Perimeter	m <sup>2</sup>
Area	m
Alea	Cm <sup>2</sup>

4 Each square has sides of 1 cm.Find the area of each shape in cm<sup>2</sup>.



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**5** Find the perimeter of each shape.



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- 6 a Calculate the area of a rectangle with a length of 70 cm and a breadth of 12 cm
  - **b** Calculate the area of a rectangle with a length of 6 m and a breadth of 900 cm

Remember to make sure that both measurements have the same units.

Learner's Activity Book 97

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7	а	Calculate the perimeter of a rectangle with a length of 83 cm and a breadth of 59 cm
	b	Calculate the perimeter of a rectangle with a length of 32 cm and a
		breadth of 12 cm
	c	Calculate the perimeter of a square with a side that is 35 m long
	d	Calculate the perimeter of a square with a side that is 18 cm

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## 8 Complete the table

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	Length of rectangle	Breadth of rectangle	Area of rectangle	Perimeter of rectangle
а	3 m	2 m		
b	9 cm	8 cm		
с	6 m		24 m <sup>2</sup>	
d		8 m	64 m <sup>2</sup>	
е		5 cm	100 cm <sup>2</sup>	

## **Lesson 21: Grouping and sharing**

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#### **Mental maths**

		Answer			Answer
1	10 ÷ 2 =		6	6 ÷ 2 =	
2	2 ÷ 2 =		7	20 ÷ 2 =	
3	12 ÷ 2 =		8	8 ÷ 2 =	
4	4 ÷ 2 =		9	16 ÷ 2 =	
5	18 ÷ 2 =		10	14 ÷ 2 =	

#### Activity 2

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Kate needs to buy 60 plastic cups.

The cups are sold in packets of 10 cups.

How many packets of cups does Kate need to buy?

**1** Underline the numbers and the question in the word problem.

Kate needs to buy 60 plastic cups.

The cups are sold in packets of 10 cups.

How many packets of cups does Kate need to buy?

**2** Use any of the strategies to find the answer and check the answer by using a different strategy from the first one.



Lesson 21: Grouping and sharing

#### Activity 3

There are 12 slices of bread Naomi puts 4 slices of bread in a lunch box. How many lunch boxes does she need?

- Underline the numbers and the question in the word problem.
  There are 12 slices of bread
  Naomi puts 4 slices of bread in a lunch box.
  How many lunch boxes does she need?
- **2** Use any of the strategies to find the answer and check the answer by using a different strategy from the first one.

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#### HOMEWORK

Kate needs to buy 72 teaspoons. The teaspoons are sold in packets of 8. How many packets of spoons must Kate buy?

1 Underline the numbers and the question in the word problem.

Kate needs to buy 72 spoons.

The spoons are sold in packets of 8.

How many packets of spoons must Kate buy?



**100** Grade 4 Mathematics

**2** Draw a picture to show how you can find the answer. (The 72 teaspoons have to be put into groups of 8.)

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**3** Complete the table to show how you can find the answer.

Number of packets	1	2	3	4	5	6
Number of plastic cups	10					

- **4** Write a multiplication number sentence to show the number of packets of spoons that Kate must buy.
- **5** Write a division number sentence to show the number of packets of spoons that Kate must buy.

Answer: Kate needs to buy \_\_\_\_\_ packets of spoons.

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# Lesson 22: Division with remainders

#### **Mental maths**

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		Answer			Answer
1	10 ÷ 5 =		6	15 ÷ 5 =	
2	35 ÷ 5 =		7	25 ÷ 5 =	
3	20 ÷ 5 =		8	5 ÷ 5 =	
4	40 ÷ 5 =		9	30 ÷ 5 =	
5	50 ÷ 5 =		10	45 ÷ 5 =	

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#### 10 × 10 multiplication table

×	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

**102** Grade 4 Mathematics
#### Link to previous lesson

There is R30.

Each child gets R5.

How many children can get R5?

#### Activity 2

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There are 39 mangoes.

Each box contains 4 mangoes.

If all mangoes must be in boxes, how many boxes do you need?

**1** Read through the question three times with your partner.



2 Underline the numbers and the question.
There are 39 mangoes.
Each box contains 4 mangoes.
If all mangoes must be in boxes, how many boxes do you need?

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- **3** Write a number sentence to show how you would work out the answer.
- **4** Solve this division problem.

**5** Discuss with your partner what the answer to the problem is. Write the final answer here.

There are 46 eggs. A shop sells eggs in an eggbox holding 6 eggs. How many egg boxes can the shop fill?

- **1** Read through the question three times with your partner.
- 2 Underline the numbers and the question.There are 46 eggs.A shop sells eggs in a box that contains 6 eggs.How many boxes can the shop fill?



**3** Write down a number sentence to show how you would work out the answer.

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**4** Solve the problem.

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- **5** Write down the answer.
- **104** Grade 4 Mathematics

#### HOMEWORK

Find the answer. Check if the remainder is bigger or smaller than the number we are dividing by.

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**1** 45 ÷ 8 = □ **2** 67 ÷ 10 = □

**3** 85 ÷ 9 = □

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**4** 50 ÷ 6 = □

Learner's Activity Book **105** 

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# Lesson 23: Dividing 0 by a number

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#### **Mental maths**

		Answer			Answer
1	12 ÷ 3 =		6	3 ÷ 3 =	
2	6 ÷ 3 =		7	15 ÷ 3 =	
3	24 ÷ 3 =		8	21 ÷ 3 =	
4	30 ÷ 3 =		9	9 ÷ 3 =	
5	18 ÷ 3 =		10	27 ÷ 3 =	

## Activity 1

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**1** Find the missing numbers:

а	0 ÷ 2 =	b	0 ÷ 5 =
с	0 ÷ 9 =	d	÷3=0
e	÷ 6 = 0	f	÷12=0
g	0 ÷ 11 =	h	0 ÷ = 0

**2** Complete the sentence:

When we divide zero by any number, the answer is \_\_\_\_\_\_

**<sup>106</sup>** Grade 4 Mathematics

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**1** Complete each flow diagram by filling in the placeholders.



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- 2 Calculate, and then check your answers by multiplying.
  - **a.** 42 ÷ 7 = \_\_\_\_\_ Check: \_\_\_\_\_ × 7 = \_\_\_\_\_
  - **b.** 100 ÷ 10 = \_\_\_\_\_ Check: \_\_\_\_\_ × 10 = \_\_\_\_\_

**c.** 27 ÷ 3 = \_\_\_\_\_ Check: \_\_\_\_\_ × 3 = \_\_\_\_\_

**d.** 56 ÷ 8 = \_\_\_\_\_ Check: \_\_\_\_\_ × 8 = \_\_\_\_\_

**3** Complete the number sentence by filling in the answer and then show how you would check each calculation.

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#### HOMEWORK

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Find the answers and check if the answers are correct.

1	42 ÷ 6 =	Check:
2	49÷5 =	Check:
3	8 × 7 =	Check:
4	30 ÷ 4 =	Check:

**108** Grade 4 Mathematics

# **Lesson 24: More division**

#### **Mental maths**

		Answer			Answer
1	18 ÷ 3 =		6	15 ÷ 3 =	
2	9 ÷ 3 =		7	24 ÷ 3 =	
3	27 ÷ 3 =		8	12 ÷ 3 =	
4	6 ÷ 3 =		9	30 ÷ 3 =	
5	21 ÷ 3 =		10	0 ÷ 3 =	

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## Link to previous lesson

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Find the answer to the division calculations. Check your answers.

1	56 ÷ 7 =	Check:
2	63 ÷ 9 =	Check:
3	40 ÷ 8 =	Check:
4	57 ÷ 6 =	Check:

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1 Mother has R80.

She wants to share the money equally among her 4 children. How much should each child get?

 $(\mathbf{0})$ 

**a** Underline the numbers and the question.

Mother has R80.

She wants to share the money equally among her 4 children.

How much should each child get?

**b** Write a number sentence.



**c** Think about how you can calculate this:

80 = 8 tens

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= \_\_\_\_\_ tens

= \_\_\_\_\_

**d** Write the answer: Each child will get \_\_\_\_\_.

**110** Grade 4 Mathematics

- **2** Find the answers by using the same strategy as question 1.
  - **a** 50 ÷ 5 = 5 tens ÷ 5 = \_\_\_\_ ten = \_\_\_\_
  - **b** 80 ÷ 2 = 8 tens ÷ \_\_\_\_ = \_\_\_ tens = \_\_\_\_
  - **c** 90 ÷ 9 = \_\_\_\_ tens ÷ \_\_\_\_ = \_\_\_\_ tens = \_\_\_\_
  - **d** 60 ÷ 3 = \_\_\_\_\_

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- 1 It costs R69 for 3 bags of sugar. How much will one bag of sugar cost?
  - **a** Underline the numbers and the question

It costs R69 for 3 bags of sugar.

How much will one bag of sugar cost?

**b** Write a number sentence.



**c** Calculate the answer.

 $69 \div 3 = (60 + 9) \div 3 = (\_\_\_ \div 3) + (9 \div 3) = \_\_\_ + \_\_\_ = \_\_$ 

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**d** Write the answer.

It costs \_\_\_\_\_ for one bag of sugar.

- 2 Find the answers by using the same strategy as question 1.
  - **a**  $48 \div 4 = (40 + 8) \div 4$ 
    - = (40 ÷ \_\_\_\_\_) + (8 ÷ \_\_\_\_\_)
    - = 10 + 2

Lesson 24: More division

**b** 84 ÷ 2 = ( \_\_\_\_\_ + \_\_\_\_ ) ÷ 2  $=(80 \div 2) + (4 \div 2)$ = \_\_\_\_\_ + \_\_\_\_\_ =\_\_\_\_\_ **c**  $66 \div 6 = ($ \_\_\_\_\_ + \_\_\_\_ ) \div 6 = ( \_\_\_\_\_ ÷ 6) + ( \_\_\_\_\_ ÷ 6) = \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_ **d** 96 ÷ 3 = (\_\_\_\_\_ + \_\_\_\_) ÷ 3 = ( \_\_\_\_\_ ÷ 3) + ( \_\_\_\_\_ ÷ 3) = \_\_\_\_\_ + \_\_\_\_\_

= \_\_\_\_\_

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Lesson 24: More division

#### **Activity 3**

Calculate

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**1** 70 ÷ 7 = \_\_\_\_\_ tens ÷ 7 = \_\_\_\_\_ ten = \_\_\_\_\_

**2** 80 ÷ 4 = \_\_\_\_\_ tens ÷ 4 = \_\_\_\_\_ tens = \_\_\_\_\_

**3** 60 ÷ 2 = \_\_\_\_\_

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**4**  $28 \div 2 = (20 + 8) \div 2$ 

- = ( \_\_\_\_\_ ÷ 2) + ( \_\_\_\_\_ ÷ 4) = \_\_\_\_\_ + \_\_\_\_
  - =\_\_\_\_

**5** 62 ÷ 2 = ( \_\_\_\_\_ + \_\_\_\_ ) ÷ 2

= ( \_\_\_\_\_ ÷ 2) + ( \_\_\_\_\_ ÷ 2)

= ..... + .....

= .....

**6**  $99 \div 3 = (90 + 9) \div 3$ 

= \_\_\_\_\_\_

**114** Grade 4 Mathematics



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# Lesson 25: Finding length and breadth of rectangles and squares

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#### **Mental maths**

		Answer			Answer
1	8 ÷ 4 =		6	16 ÷ 4 =	
2	28 ÷ 4 =		7	4 ÷ 4 =	
3	20 ÷ 4 =		8	40 ÷ 4 =	
4	32 ÷ 4 =		9	24 ÷ 4 =	
5	0 ÷ 4 =		10	12 ÷ 4 =	

#### Activity 1

**1** Find the length of the sides of a square with a perimeter of 32 m.

Write the number sentence: \_\_\_\_\_

Answer: The length of each side of the square is \_\_\_\_\_

2 Find the length of the sides of a square with a perimeter of 48 m.

Write the division number sentence: \_\_\_\_\_

Answer: The length of each side of the square is \_\_\_\_\_

**<sup>116</sup>** Grade 4 Mathematics

**1** Find the breadth of a rectangle with an area of 30 m<sup>2</sup> and a length of 10 m.

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Write the division number sentence: \_\_\_\_\_

Answer: The breadth of the rectangle is \_\_\_\_\_

**2** Find the breadth of a rectangle with an area of 42 cm<sup>2</sup> and a length of 7 cm.

Write the division number sentence: \_\_\_\_\_

Answer: The breadth of the rectangle is \_\_\_\_\_

Answer: The length of the rectangle is \_\_\_\_\_

4 Find the length of a rectangle with an area of  $45 \text{ m}^2$  and a breadth of 5 m.

Write the division number sentence: \_\_\_\_\_

Answer: The length of the rectangle is \_\_\_\_\_

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# Activity 3

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Fill in the missing measurements:

Note: **a** and **b** are squares.



**118** Grade 4 Mathematics

Lesson 25: Finding length and breadth of rectangles and squares

#### HOMEWORK

**1** Find the length of the sides of a square with a perimeter of 24 m.

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Write the division number sentence: \_\_\_\_\_

Answer: The length of each side of the square is \_\_\_\_\_

**2** Find the breadth of a rectangle with an area of 72 cm<sup>2</sup> and a length of 9 cm.

Write the division number sentence: \_\_\_\_\_

Answer: The breadth of the rectangle is \_\_\_\_\_

# **Lesson 26: Long division**

#### **Mental maths**

		Answer			Answer
1	24 ÷ 4 =		6	8 ÷ 4 =	
2	16 ÷ 4 =		7	0 ÷ 4 =	
3	32 ÷ 4 =		8	36 ÷ 4 =	
4	12 ÷ 4 =		9	4 ÷ 4 =	
5	40 ÷ 4 =		10	28 ÷ 4 =	

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#### Link to previous lesson

Fill in the missing measurements.



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This is a square. The perimeter = 28 m



This is a rectangle. The area =  $36 \text{ m}^2$ .

**120** Grade 4 Mathematics

Use simplified pictures to work out the answer to 72  $\div$  3 =  $\Box$ 

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Use long division to find the answer to  $72 \div 3 = \Box$ 



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**1** Solve  $78 \div 6 = \Box$  using long division.

Which times table must you use for this long division example? \_\_\_\_\_

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Answer: 78 ÷ 6 = \_\_\_\_\_

**2** Solve  $96 \div 4 = \Box$  using long division.

Which times table must you use for this long division example? \_\_\_\_\_



Answer: 96 ÷ 4 = \_\_\_\_\_

**122** Grade 4 Mathematics

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**1** Solve  $85 \div 5 = \Box$  using long division.

Which times table must you use for this long division example? \_\_\_\_\_

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**2** Solve  $90 \div 2 = \Box$  using long division.

Which times table must you use for this long division example? \_\_\_\_\_



#### HOMEWORK

**1** Solve  $91 \div 7 = \Box$  using long division.

Which times table must you use for this long division example?

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Check your answer by using multiplication.



Answer: \_\_\_\_\_

**124** Grade 4 Mathematics

# Lesson 27: Long division with a remainder

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#### **Mental maths**

		Answer			Answer
1	18 ÷ 6 =		6	24 ÷ 6 =	
2	48 ÷ 6 =		7	36 ÷ 6 =	
3	60 ÷ 6 =		8	6 ÷ 6 =	
4	12 ÷ 6 =		9	54 ÷ 6 =	
5	30 ÷ 6 =		10	42 ÷ 6 =	

#### Link to previous lesson

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Use long division to solve  $60 \div 4 = \Box$ .

Which times table will we use to do this long division? \_\_\_\_\_



Answer: 60 ÷ 4 = \_\_\_\_\_

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Solve the following using long division.



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**126** Grade 4 Mathematics

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**1** Tia calculated 78 ÷ 5 like this:

	Т	0
	1	4
5	7	8
-	5	
	2	8
-	2	0
		8

78 ÷ 5 = 14 remainder 8

**a** Explain to Tia how you know that her calculation is wrong.

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**b** Redo the calculation to show Tia the correct answer.



78 ÷ 5 = \_\_\_\_\_

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Learner's Activity Book 127

**2** You have 85 cm piece of string. How many 6 cm pieces can you make from this piece?

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Answer: I can make \_\_\_\_\_ pieces of string and I will have \_\_\_\_\_ cm left over.

#### HOMEWORK

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Solve  $83 \div 6 = \Box$  using long division.



**128** Grade 4 Mathematics

# Lesson 28: Long division with and without a remainder

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#### **Mental maths**

		Answer			Answer
1	0 ÷ 6 =		6	30 ÷ 6 =	
2	24 ÷ 6 =		7	18 ÷ 6 =	
3	42 ÷ 6 =		8	48 ÷ 6 =	
4	54 ÷ 6 =		9	6 ÷ 6 =	
5	12 ÷ 6 =		10	36 ÷ 6 =	

#### Link to previous lesson

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Solve  $89 \div 3 = \Box$  using long division, and then check your answer.





Check your answer

Learner's Activity Book 129

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- 1 There are 98 children in Grade 4.3 children can sit at one desk.How many desks are needed for every child to have a seat?
  - **a** Underline the numbers and the question.
  - **b** Write a number sentence to find the answer to this problem?

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- **c** Which times table will we use to do this long division?
- **d** Do the division and then check your answer.



- e What should we do about the remainder?
- f How many desks do we need?
- **130** Grade 4 Mathematics

**2** Solve each division calculation. Use long division.

**a** 93 ÷ 3 = □



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**b** 49 ÷ 2 = □

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Check the answer:

Learner's Activity Book 131

Lesson 28: Long division with and without a remainder

**c**  $60 \div 6 = \square$ 



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#### Activity 2

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- I have 52 m of wire. I need to cut pieces of wire that are 5 m long from it. How many pieces of wire will I get?
- **a** Underline the numbers and the question.
- **b** Write down the number sentence.
- **c** Which times table will we use to do this long division?
- **d** Do the long division.



e How many pieces of wire will I get?

Lesson 28: Long division with and without a remainder

Solve. Use long division.

ТО	ТО	ТО
3 ÷ 4	63 ÷ 6	91 ÷ 3
	=	=
heck the answer	Check the answer	Check the answer

Grade 4 Mathematics

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There are 852 bricks.

They have to be loaded on 3 trucks so that each truck has the same number of bricks.

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How many bricks will go on each truck?

- **1** Underline the numbers and the question.
- 2 Write a number sentence: \_\_\_\_\_

**3** Which times table will we use to do this long division? \_\_\_\_\_

**4** Complete this long division:



852 ÷ 3 = \_\_\_\_\_

5 How many bricks are there on each truck?

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#### HOMEWORK

Solve 828 ÷ 6 =  $\Box$  using long division.

	Н	Т	0
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Answer: \_

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# **Lesson 29: Consolidation**

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**1** Find the length of one side of this square.

The perimeter = 32 m.



Length = \_\_\_\_\_

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**2** Find the breadth of this rectangle.



Breadth = \_\_\_\_\_

3 David sells bags with 10 oranges each.How many bags can he fill if he has 45 oranges?

David can fill \_\_\_\_\_ bags of oranges.

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Lesson 29: Consolidation

- **4** A taxi can carry 7 passengers. How many taxis will be needed for 789 passengers?
  - **a** Write the number sentence.
  - **b** Use long division to find out how many taxis will be needed.

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Н	Т	0

Answer: \_\_\_\_\_

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How many taxis are needed?

**c** Explain your answer.
5 Match the division calculation with the multiplication check.Remember: the brackets show what we should do first.

Division calculation	Multiplication check
96 ÷ 8 = 12	(4 × 19) + 3
	8 × 12 = 96
79 ÷ 4 = 19 reminder 3	(1 × 28) + 3
$95 \div 2 = 29$ remainder 1	(3 × 28) +1
$65 \div 3 = 28$ remainder 1	(19 × 3) + 4

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**6** Optional

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The perimeter of this rectangle = 26 cm. Find the length of this rectangle.



Answer: The length of the rectangle is \_\_\_\_\_

# Lesson 30: Common fractions and decimal fractions

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### **Mental maths**

		Answer			Answer
1	3 + 9 =		6	18 + 0 =	
2	8 + 7 =		7	1 + 9 =	
3	7 + 4 =		8	9 + 5 =	
4	9 + 6 =		9	10 + 4 =	
5	8 + 9 =		10	8 + 8 =	

#### Link to previous lesson

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Look at the scale on the 1 <sup>ℓ</sup> container.

How many equal parts is the scale divided into?



What does one calibration or mark show or represent?

**<sup>140</sup>** Grade 4 Mathematics

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Work with the whole class to answer these questions.

**1** Look at this measuring jug.



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How many parts is the scale divided into? \_\_\_\_\_

Draw a line to show  $\frac{1}{10}\ell$  on the measuring jug.

**2** Draw a line to show  $\frac{3}{10}\ell$  on the measuring jug.



**3** Write down how much water is in these two measuring jugs.



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There is \_\_\_\_\_ litre and 0,\_\_\_\_\_ litres of water in the two measuring jugs.

So, we have \_\_\_\_\_ water in the two measuring jugs

## Activity 2

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Work with your partner.

1 Write the capacity of each container as a common fraction and as a decimal fraction:



**142** Grade 4 Mathematics

**2** Shade in 1,7 litres on these two containers.



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## Activity 3

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Work on your own.

1 Write the decimal fraction for each common fraction:

**a** 
$$\frac{2}{10} = 0$$
, **b**  $\frac{9}{10} =$  **c**  $\frac{4}{10} =$  \_\_\_\_\_

- 2 Write the common fraction for each decimal fraction:
  - **a** 0,6 =  $\frac{10}{10}$  **b** 0,8 = --- **c** 0,7 = ---

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## HOMEWORK

Each circle has been divided into 10 equal parts.
 Write each of the shaded areas as a common fraction and as a decimal fraction:



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**2** Shade in 0,7 on the diagram.

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# Lesson 31: Counting in decimal fractions

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### **Mental maths**

		Answer			Answer
1	10 - 4 =		6	18 – 9 =	
2	12 – 2 =		7	13 – 7 =	
3	15 – 12 =		8	11 – 5 =	
4	12 – 4 =		9	16 - 11 =	
5	14 - 6 =		10	17 - 8 =	

## Link to previous lesson

Answer these questions.

**1** Show 0,9 on the diagram.

2

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Write the fraction of water in this container as:

**a** a decimal fraction: \_\_\_\_\_ litre

**b** a common fraction: — litre

Lesson 31: Counting in decimal fractions

# Activity 1

Work with the whole class.

**1** Use the ruler. Measure the length of line A and line B.

Δ													
5													
В													
	1	2 3	4	5	6	7	8	9	10	11	12	13	
		ĪĪ	Í	Ĩ	Ĩ	Ì	Ĩ	Ī	Ĩ	Ĩ	Ĩ	Ĩ	cm

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Length of line A = \_\_\_\_\_ cm

Length of line B = \_\_\_\_ cm

2 Look at the ruler.

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mm	n linul								huduu	hundhund		huduu				.1
mm	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	cm
huutu	mliniit	miliuut	mlim	milini	mlm	mlm	hindhini	l	hindina	tuuluut	ավա	ասհա	tuuluut	mlim	hindin	dum

Into how many equal parts is 1 centimetre divided?

Now answer these:

- **a** There are \_\_\_\_\_ mm in one cm.
- **b** 1 mm =  $\frac{10}{10}$  cm.
- **c** We can write  $\frac{1}{10}$  cm as 0, \_\_\_\_ cm.

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**3** What is the length of line C? Write your answer under the ruler. Give your answer in cm and mm and in cm only.

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Length of line C is \_\_\_\_\_ cm and \_\_\_\_\_ mm long.

Length of line C is \_\_\_\_\_ m long.

### **Activity 2**

 $( \bullet )$ 

Work with your partner.

1 Show the position of the following numbers on the number line:



**2** Use the number line to help you. Write the next four numbers in each number pattern.

**a.** 0,4; 0,5; 0,6; \_\_\_\_\_; \_\_\_\_; \_\_\_\_; \_\_\_\_;

- **b.** 1,8; 1,6; 1,4; \_\_\_\_\_; \_\_\_\_; \_\_\_\_; \_\_\_\_;
- **c.** 0,4; 0,6; \_\_\_\_\_; \_\_\_\_; \_\_\_\_; \_\_\_\_;

Lesson 31: Counting in decimal fractions

# **Activity 3**

Work on your own

Fill in the missing numbers.

- **1** 7 mm = \_\_\_\_ cm
- **2** 0,4 cm = \_\_\_\_ mm
- **3** 5 cm 8 mm = \_\_\_\_ cm
- **4** 2,1 cm = \_\_\_\_ cm \_\_\_\_ mm
- **5** 4,6 cm = \_\_\_\_ cm \_\_\_\_ mm
- **6** 3  $\frac{5}{10}$  cm = \_\_\_\_ cm

#### HOMEWORK

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Draw a line to match the number in Column A with the decimal fraction in Column B.

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Column A	Column B
8 mm	5,3 cm
5 cm 3 mm	8,9 cm
$\frac{3}{10}$ mm	0,8 cm
8 cm 9 mm	0,3 mm

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# Lesson 32: Which decimal fraction is bigger?

#### **Mental maths**

		Answer			Answer
1	15 + 5 =		6	9 + 29 =	
2	18 + 7 =		7	36 + 6 =	
3	9 + 12 =		8	18 + 8 =	
4	62 + 8 =		9	25 + 6 =	
5	26 + 4 =		10	7 + 17 =	

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#### Link to previous lesson

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Fill in 0,4; 0,9; 1,1; 1,5 and 1,9 on the number lines.



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**1** Show 0,4; 1,2 and 2,7 on the number line.



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- 2 Themba wants to find out which number is bigger: 0,8 or 1,4.
  - **a** Plot 0,8 and 1,4 on the number line.



Explain to Themba how the number line tells us which number is bigger.

**b** How many 0,1s are there in 0,8?

How many 0,1s are there in 1,4?	
---------------------------------	--

Explain to Themba how knowing the number of 0,1s in a number tells us which number is bigger.

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**3 a** How many 0,1s make 3,2? \_\_\_\_\_

**b** How many 0,1s are there in 5? \_\_\_\_\_

**c** How many Ones and tenths (or 0,1s) make 6,2?

\_\_\_\_\_ Ones and \_\_\_\_\_ tenths.

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Work on your own.

Write < or > to make each number sentence true.

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- **1** 1, 3 \_\_\_\_ 1,7
- **2** 0,6 \_\_\_\_ 0,5
- **3** 1 \_\_\_\_ 0,9
- **4** 2,8 \_\_\_\_ 3
- **5** 1,2 \_\_\_\_ 1,5
- **6** 3,4 \_\_\_\_ 2,9
- **7** 6,5 \_\_\_\_ 5,6
- **8** 7,7 \_\_\_\_ 8,1

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#### HOMEWORK



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# Lesson 33: Compare decimal fractions and common fractions

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## **Mental maths**

		Answer			Answer
1	13 + 16 =		6	36 + 60 =	
2	48 + 10 =		7	74 + 11 =	
3	24 + 15=		8	15 + 43 =	
4	12 + 54 =		9	20 + 52 =	
5	20 + 11 =		10	34 + 34 =	

#### Link to previous lesson

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**1** Show how you can use a number line to work out how many 1s and 0,1s there are in 3,9.



There are \_\_\_\_\_ 1s and \_\_\_\_\_ 0,1s

**2** Show how you can use a place value table to work out how many 1s and 0,1s there are in 3,9.

0	,	t			
3	,	9			
One's place		$\frac{1}{10}$ 's place	There are	_ O's and	t's in 3,9
		l			

**152** Grade 4 Mathematics

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Work with your partner.

Sibu walks <sup>9</sup>/<sub>10</sub> km to school.
 Mary walks 0,8 km to school.
 Who walks further?

Use the number line to show how you got your answer.



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Answer: \_\_\_\_\_\_ walks further.

Joe drank <sup>2</sup>/<sub>10</sub> litre milk in the morning.
 Joe drank 0,7 litre juice in the afternoon.
 Did Joe drink more milk or more juice?

Use the number line to show how you got your answer.



Answer: Joe drank more \_\_\_\_\_.

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# Activity 3

Work on your own

Write <, > or = to make each number sentence true.

#### HOMEWORK

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## Who lives closest to school?

Annie lives 4,5 km from school.

Sam lives 3,9 km from school.

Mkhize lives 4,6 km from school.

Answer the question by completing each statement:

- 1 Annie lives \_\_\_\_\_ whole kilometres and \_\_\_\_\_ kilometres from school.
- **2** Sam lives \_\_\_\_\_ whole kilometres and \_\_\_\_\_ kilometres from school.
- **3** Mkhize lives \_\_\_\_\_ whole kilometres and \_\_\_\_\_ kilometres from school.
- **4** \_\_\_\_\_ lives closest to school.

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# Lesson 34: Adding decimal fractions (1)

#### **Mental maths**

		Answer			Answer
1	15 + 25 =		6	16 + 16 =	
2	29 + 43 =		7	48 + 37 =	
3	44 + 36 =		8	27 + 53 =	
4	23 + 18 =		9	41 + 49 =	
5	27 + 24 =		10	29 + 47 =	

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# Link to previous lesson

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The square represents 1 whole.



Write the shaded part of the block as:

- 1 a common fraction \_\_\_\_\_
- 2 a decimal fraction \_\_\_\_\_

Lesson 34: Adding decimal fractions (1)

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# Activity 1

Work on this Activity with the whole class.

Write the digits in the correct columns.

		Н	Т	0	,	t
1.	28,7					
2.	136,4					
3.	204,3					
4.	0,5					
5.	671					
6.	120,8					
7.	0,9					

# Activity 2

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Work with their partner

**1** Write down how you can add 0,3 and 0,5.

2 Use the number line to add 0,6 and 0,8.



**156** Grade 4 Mathematics

3 Rita ran 3,4 km on Saturday and5,2 km on Sunday.How far did Rita run altogether?

Underline the numbers and the question.

Write a number sentence to describe the problem: \_\_\_\_\_

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Fill in the Place Value labels on the Place Value table.

Write the numbers on the table.

Do the calculation.

How many kilometres did Rita run altogether?

Rita ran \_\_\_\_\_ km altogether.

Now answer **4** on your own.

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- 4 Mother needs 1,8 kg of flour to make bread and2,3 kg of flour to bake scones.How much flour does mother need if she wants to bake bread and scones?
  - **a** Underline the numbers and the question in the word problem.
  - **b** Write a number sentence to describe the problem: \_\_\_\_\_
  - **c** Use the column method to calculate the answer.



**d** Answer: Mother needs \_\_\_\_\_\_ kg of flour to bake bread and scones.

		-	
1			
-	1		
 -			
	:		
	1		

Learner's Activity Book 157

Lesson 34: Adding decimal fractions (1)

# Activity 3

Work on your own.

**1** Use the column method to calculate  $0,7 + 9,5 = \Box$ .

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Η	Т	0	,	t

The answer is \_\_\_\_\_.

**2** Use the column method to calculate  $26,7 + 78,3 = \Box$ .

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The answer is \_\_\_\_\_.

## HOMEWORK

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Use the column method to calculate  $62,9 + 57,6 = \Box$ .

Η	Т	0	,	t

**158** Grade 4 Mathematics

# Lesson 35: Adding decimal fractions (2)

#### **Mental maths**

		Answer			Answer
1	13 – 9 =		6	24 – 5 =	
2	10 - 8 =		7	31 – 9 =	
3	15 – 7 =		8	23 - 6 =	
4	20 – 5 =		9	42 – 7 =	
5	12 – 5 =		10	57 - 8 =	

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# Link to previous lesson

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Use the column method to calculate  $26,7 + 78,3 = \Box$ .

Η	Т	0	,	t

The answer is \_\_\_\_\_.

Work with your partner.

 Read the numbers and write the digits in the correct places of the Place Value table.

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Then rewrite decimal fractions in metres and centimetres.

	Read	Η	Т	0	,	t	h	Metres and centimetres
а	42,39 m							
b	138,48 m							
с	571,09 m							
d	0,34 m							
e	606,21 m							

2 Let's think about money.

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**a** How do we write R1 in the Place Value table?

Η	Т	0	,	t	h	
:	:					

**b** How do we write R1,50 in the Place Value table?

			· .	
			· •	
 		-	•	
 	_		_	
		-		
		-		

Write R1,50 in words:

**160** Grade 4 Mathematics

**1** Work with your class.

Ivy paid R8,65 for bread and R11,30 for milk. How much did Ivy pay altogether?

**a** Underline the numbers and the question in the word problem.

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- **b** Write a number sentence for the problem.
- **c** Use the column method to calculate the answer.

Т	0	,	t	h

**d.** Write the answer to the question:

lvy paid \_\_\_\_\_

2 Work with your partner.

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Peter was 1,36 m tall last year. He grew 0,15 m this year. How tall is Peter now?

- **a** Underline the numbers and the question in the word problem.
- **b** Write a number sentence for the problem.
- **c** Use the column method to calculate the answer.

Т	0	,	t	h

**d.** Write the answer to the question:

Peter is \_\_\_\_\_ m tall.

Learner's Activity Book 161

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# HOMEWORK

Calculate:

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	Т	0	,	t	h
	4	5	,	7	5
+	3	6	,	2	5
			•		



# Lesson 36: Subtracting decimal fractions (1)

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# **Mental maths**

		Answer			Answer
1	46 - 13 =		6	97 - 80 =	
2	27 – 10 =		7	55 – 41 =	
3	39 - 33 =		8	52 – 50 =	
4	74 - 60 =		9	68 – 27 =	
5	19 - 11 =		10	84 - 12 =	

# Link to previous lesson

Calculate:

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- Work with your class.
  Mother had 1,5 metres of material.
  She used 1,2 metres to make curtains.
  How much material does she have left?
  - **a** Underline the numbers and the question in the word problem.
  - **b** Write a number sentence to describe the problem.

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**c** Use the column method to calculate the answer.

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- 2 Work with your partner.Before the rain, the dam was 19,4 m deep.After the rain, the dam was 23,2 m deep.By how much did the level of the water change?
  - **a** Underline the numbers and the question in the word problem.
  - **b** Write a number sentence to describe the problem.

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**c** Use the column method to calculate the answer.

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**d.** Write the answer to the question:

The level of the water has changed by \_\_\_\_\_.

**164** Grade 4 Mathematics

Work with your partner.

The list shows the distances jumped in a long jump competition.

Basetsana	4,3 m	
Nhlovo	4,2 m	
Josefa	3,8 m	
Khana	5,1 m	
Dineo	4,9 m	
Horisami	4,5 m	

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- 1 Arrange the distances from longest to shortest.
- 2 Who jumped the furthest? \_\_\_\_\_
- **3** We want to know how much further Khana jumped than Josefa.
  - **a** Write a number sentence to describe the problem.
  - **b** Use the column method to work out the answer.



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- 4 We want to calculate the sum of the three shortest jumps.
  - **a** Write a number sentence to describe the problem.
  - **b** Use the column method to work out the answer.

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Work on your own.

# Calculate

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**1 a** Use the column method to calculate  $32,4 - 8,9 = \Box$ 

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The answer is \_\_\_\_\_

- **b** Write the answer rounded off to the nearest One.
  - Underline the digit in the One's place and circle the digit in the next smaller place: \_\_\_\_\_

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- Look at the digit in the One's place. Do we round it up or do we round it down or do we leave it as it is?

- Give the answer rounded off to the nearest One: \_\_\_\_\_

**2** a Use the column method to calculate 42 - 39,  $7 = \Box$ 

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The answer is \_\_\_\_\_

**166** Grade 4 Mathematics

- **b** Write the answer rounded off to the nearest One.
  - Underline the digit in the One's place of the answer.

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Circle the digit in the tenth's place: \_\_\_\_\_

- Look at the digit in the One's place.

Do we round it up or do we round it down or do we leave it as it is?

- Give the answer rounded off to the nearest One: \_\_\_\_\_

### HOMEWORK

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Use columns to calculate:  $76,4 - 7,8 = \Box$ 

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The answer is 76,4 – 7,8 = \_

# Lesson 37: Subtracting decimal fractions (2)

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### **Mental maths**

		Answer			Answer
1	20 - 16 =		6	77 – 59 =	
2	31 – 29 =		7	35 – 27 =	
3	50 - 43 =		8	51 – 42 =	
4	23 – 17 =		9	95 - 68 =	
5	45 - 36 =		10	91 – 56 =	

# Link to previous lesson

Calculate: 3,5 – 2,9 = □

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The answer is \_\_\_\_\_

**168** Grade 4 Mathematics

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Work with your class and then finish the work on your own.

Tshilidzi has R16,30.

Zwanga has R20,10.

How many more R1 coins does Tshilidzi need so that she has almost the same amount of money as Zwanga?

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- 1 Underline the numbers and the question in the word problem.
- 2 Write a number sentence to describe the problem: \_\_\_\_\_
- **3** Use the column method to calculate the answer.

	Т	0	,	t	h				
						4	Write the answ	wer to	the subtraction:
							Tshilidzi has		less than Zwanga.

**5** To find out how many R1 coins Tshilidzi needs so that she has the same amount of money as Zwanga, we have to round off the answer to the nearest Ones.

Write the answer to the subtraction here: \_\_\_\_\_

Underline the digit in the Ones place because it is the place to be rounded:

Then circle the digit to the right of that number (the one in the tenth's position):

Do we round the digit in the one's place up, or down, or leave it as it is?

What is the answer rounded to the nearest One?\_\_\_\_\_

6 How many more R1 coin does Tshilidzi need to have nearly the same amount of money as Zwanga?

Learner's Activity Book 169

Nkosi bought food which cost R16,98.

How much change should he get if he paid with a R50 note?

Remember: There are no 1 cent, 2 cent or 5 cent coins, so the shopkeeper must **round up** the change.

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1 Underline the numbers and the question in the word problem.

Nkosi bought food which cost R16,98.

How much change should he get if he paid with a R50 note?

- 2 Write a number sentence to describe the problem: \_\_\_\_\_
- **3** Use the column method to calculate the answer.



4 Remember, there are no longer 1 cent, 2 cent or 5 cent coins, so the shopkeeper rounds *up to the nearest 10 cents* when giving change.

Write the answer to the subtraction here: \_\_\_\_\_

Underline the digit in the tenth's position and circle the digit in the hundredth's position: \_\_\_\_\_

Because there are no 2 cent coins, we round the digit in the tenth's position up, even though the digit in the hundredth's position is less than 5.

How much change should Nkosi get?





Lesson 37: Subtracting decimal fractions (2)

**5** Why must the shopkeeper round the change up?

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Learner's Activity Book 171

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- 1 Calculate:  $50,46 49,53 = \square$ Give the answer rounded off to the nearest tenth.
  - **a** Use the column method to find the answer.

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**b** Round the answer off to the nearest tenth.

Underline the digit in the tenth's position and circle the digit in the hundredth's position: \_\_\_\_\_

What is the answer rounded to the nearest tenth?

2 Calculate 68 – 58,35 = □

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Give the answer rounded off to the nearest tenth.

**a** Use the column method to find the answer.

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68 - 58,35 = \_\_\_\_\_

**b** Round the answer off to the nearest tenth.

Underline the digit in the tenth's position and circle the digit in the hundredth's position: \_\_\_\_\_

Look at the digit in the tenth's place. Do we round it up or leave it as it is?

What is the answer rounded to the nearest tenth?

**<sup>172</sup>** Grade 4 Mathematics

### HOMEWORK

Use the column method to calculate:  $19,25 - 13,99 = \Box$ 

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The answer is 19,25 – 13,99 = \_\_\_\_\_

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Learner's Activity Book **173** 

# **Lesson 38: Consolidation**



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**3** Decide whether true or false. Explain your answer.

		True / False	Explain why you say yes or no.
а	0,6 is bigger than 0,06		
b	0,07 is smaller than 0,7		
с	4,5 < 4,52		
d	<u>10</u> 10 > 0,9		
е	$\frac{8}{10} = 0.8$		

**174** Grade 4 Mathematics

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4 How long is Line A? \_\_\_\_\_

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5 How many Hundreds, Tens, Ones, tenths and hundredths are there in 349,25?

There are \_\_\_\_ Hundreds, \_\_\_\_ Tens, \_\_\_\_ Ones, \_\_\_\_ tenths and \_\_\_\_ hundredths in 349,25.

**6** Calculate:

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**a** 0,71 + 0,29 = □

**b** 32 − 23,47 = □

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Learner's Activity Book **175** 

## **Lesson 39: Millilitres and litres**

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### **Mental maths**

		Answer			Answer
1	3,4 + 3,5 =		6	4,2 + 3,8=	
2	2,3 + 6,4 =		7	12,1 + 17,9 =	
3	4,1 + 6 =		8	9,19 + 11,32 =	
4	3,5 + 2,7 =		9	9,03 + 7, 07 =	
5	11 + 6,3 =		10	42,74 + 1,2 =	

### Activity 1

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**176** Grade 4 Mathematics

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Learner's Activity Book **177** 

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### Activity 2

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Work with a partner.

1 On the table rite the capacity of each containers in millilitres (ml) and then in litres (l).

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0	ntainer	Capacity					
	Jitamer	In millilitres (mℓ)	In litres (ℓ)				
а	Dishwashing liquid		5 l				
b	Cola	500 mł					
с	Milk		1 €				
d	Grape juice	400 mł					
е	Floor cleaner		3 €				
f	Measuring cup	250 mł					

**2** Write the containers in order from the one with the largest capacity to the one with the smallest capacity.

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Write the letter of each container only: \_\_\_\_\_

**<sup>178</sup>** Grade 4 Mathematics

### **Activity 3**

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Work with your partner.

1. Look at the measuring jugs. Answer the questions.



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- a What is the capacity of these identical jugs in litres?
- **b** Write the capacity of the jugs in millilitres.
- **c** We need to know what the interval is between marks on each jug.

How many equal parts are shown on the vertical line on each jug? \_\_\_\_\_

How do you work out the interval between the marks?

What is the interval between marks?

**2** Read and write the volume of liquid in each of these containers in millilitres.



Learner's Activity Book 179

**3** Write the volume of each of these containers in litres. Explain how you got your answer.

Volume in litres	Explain how you get your answer

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**180** Grade 4 Mathematics

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### HOMEWORK

Look at the jugs and then answer the questions.





- 1 What is the capacity of Jug F? \_\_\_\_\_
- 2 What is the volume of the juice in Jug F? \_\_\_\_\_
- **3** What is the capacity of Jug G? \_\_\_\_\_
- 4 What is the volume of liquid in Jug G? \_\_\_\_\_
- **5** Will the juice in Jug F fit in Jug G? \_\_\_\_\_

Give a reason for your answer. Use the words capacity and volume in your answer.

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6 Draw Jug G after the juice has been poured in from Jug F.



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## Lesson 40: Capacity and volume in everyday life (1)

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### **Mental maths**

		Answer			Answer
1	3,6 - 1,4 =		6	18,35 - 12,21 =	
2	19,9 - 9,2 =		7	5,2 - 0,7 =	
3	4,4 - 2,4 =		8	13 - 2,9 =	
4	7,3 - 2,4 =		9	20 - 13,7 =	
5	8,1 - 7,3 =		10	10,1 - 9,4 =	

### Link to previous lesson

- 1 What is the capacity of the juice can? \_\_\_\_\_
- 2 What is the capacity of the cup?
- **3** Write the capacity of the cup in litres?



**<sup>182</sup>** Grade 4 Mathematics

### Activity 1

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Work with your partner

- Write in millilitres.
   Example: 2 ℓ = 2 000 mℓ
  - a 5 l = \_\_\_\_ ml
  - **b** 10 l = \_\_\_\_\_ml
  - **c** 1 ℓ = \_\_\_\_mℓ
  - $d \quad \frac{3}{4} \ell = \underline{\qquad} m\ell$
  - e <u>1</u> l = \_\_\_\_ ml
- Write in litres and millilitres.Example: 1 600 ml can be written as 1 l and 600 ml.
  - **a** 1 700 ml = \_\_\_\_\_l and \_\_\_\_\_ ml
  - **b** 4 600 ml = \_\_\_\_ l and \_\_\_\_ ml
  - **c** 6 990 mł = \_\_\_\_ ł and \_\_\_\_ mł
  - **d** 3 050 ml = \_\_\_\_ l and \_\_\_\_ ml
- B How many litres in each of the following?
   Give your answer as a decimal.
   Example: 2 500 mℓ = 2,5 ℓ
  - a 1700 ml = \_\_\_\_\_l
  - **b** 4 600 ml = \_\_\_\_ l
  - **c** 6 990 mł = \_\_\_\_ ł
  - **d** 3 050 mł = \_\_\_\_ ł
  - **e** 750 ml = \_\_\_\_ l

How many litres in each of the following?
 Give your answer as a fraction or a decimal fraction if necessary.
 Example: 2 500 mℓ = 2,5 ℓ = 2 ½ ℓ

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- a 3000 ml = \_\_\_\_ l
- **b** 5 500 ml = \_\_\_\_ l
- **c** 4 200 ml = \_\_\_\_ l
- **d** 750 mł = \_\_\_\_ ł
- 5 Thembi sells milk. Her customers bring their own containers. Thembi filled two containers with 2 l each, one container with 1,5 l and one container with 4 l. How many litres did Thembi sell?
  - **a** Read the word problem carefully. Underline the numbers and the question.

Thembi sells milk. Her customers bring their own containers. Thembi filled two containers with 2  $\ell$  each, one container with 1,5  $\ell$ and one container with 4  $\ell$ . How many litres did Thembi sell?

- **b** Write a number sentence for the word problem: \_\_\_\_\_
- **c** Do the calculation:

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- **d** Answer: Thembi sold \_\_\_\_\_ ℓ of milk.
- e Rewrite the answer in millilitres: \_\_\_\_\_ mℓ
- **f** Rewrite the answer in litre and millilitres: \_\_\_\_\_ ℓ and \_\_\_\_\_ mℓ

**<sup>184</sup>** Grade 4 Mathematics

### Activity 2

Do this Activity on your own.

- A container holds 2,5 l petrol.
   Another container holds 4 <sup>1</sup>/<sub>4</sub> l petrol.
   How much petrol is there altogether?
  - a Read the word problem carefully.Underline the numbers and the question.

A container holds 2,5  $\ell$  petrol. Another container holds 4  $\frac{1}{4} \ell$  petrol. How much petrol is there altogether?

- **b** Write a number sentence for the word problem: \_\_\_\_\_
- c Write both amounts of petrol in millilitres
  - 2,5 l = \_\_\_\_ ml
  - $4\frac{1}{4}\ell = \_$ \_\_\_\_\_ml

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**d** Use the column method to find the total.

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**e** Give the answer in three ways:

In mł: \_\_\_\_\_ mł

In l and ml: \_\_\_\_\_ l and \_\_\_\_\_ ml





- 2 Zami drank 1,5 l water in the morning and 2 l and 600 ml water in the afternoon.How much water did Zami drink during the day?
  - a Read the word problem carefully.Underline the numbers and the question.

Zami drank 1,5 ℓ water in the morning and 2 ℓ and 600 mℓ water in the afternoon. How much water did Zami drink during the day?

**b** Convert 1,5 *ℓ* to m*ℓ*:

1,5 l = \_\_\_\_ ml

- c Convert 2 ℓ and 600 mℓ to mℓ: 2 ℓ and 600 mℓ = \_\_\_\_ mℓ
- **d** Write a number sentence for the word problem: \_\_\_\_\_

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**e** Use the column method to find the answer:

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fGive the answer:Zami drank \_\_\_\_\_ ml , or \_\_\_\_ l , or \_\_\_\_ l and \_\_\_\_ ml water.

**186** Grade 4 Mathematics

**3** Gogo uses 1 cup of milk to make scones.

If she doubles the recipe, how much milk will she need?

- a Read the word problem carefully. Underline the numbers and the question.
  Gogo uses 1 cup of milk to make scones. If she doubles the recipe, how much milk will she need?
- **b** Write a number sentence for the word problem:

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- c Do the calculation:
- **d** How many cups of milk will Gogo need? Gogo will need \_\_\_\_\_ cups of milk.

e 1 cup of milk has a capacity of 250 ml
How many millilitres of milk will Gogo need? Gogo will need \_\_\_\_\_ ml milk
How many litres of milk will Gogo need? Gogo will need \_\_\_\_\_ l milk or
0, \_\_\_\_ l milk

### HOMEWORK

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1	How many litres in each of the following? Give your answer as a decimal fraction if necessary. Example: 1 500 ml = 1,5 l				
	<b>a</b> 1 000 mł = ł <b>b</b> 2 500 mł = ł				
	<b>d</b> 17 500 ml = l				
2	Write in millilitres. Example: 2 ย = 2 000 mย				
	<b>a</b> 8 l = ml <b>b</b> 20 l = ml				
	<b>d</b> $1\frac{1}{4}\ell = 1\ell$				

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Learner's Activity Book 187

# Lesson 41: Capacity and volume in everyday life (2)

### **Mental maths**

		Answer			Answer
1	3,9 - 2,2 =		6	16,7 – 9,2 =	
2	7,42 - 4,32 =		7	3 – 2,2 =	
3	6,19 – 3,17 =		8	20 - 14,3 =	
4	5,7 – 1,8 =		9	4,31 - 0,28 =	
5	2,2 - 0,9 =		10	8,21 - 5,36 =	

#### Link to previous lesson

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Work with your partner to find the answer.

A tap at the school was leaking.

Teacher put a 2 ℓ bucket under the tap to catch the water.

The tap leaked half a bucket of water a day.

How much water was leaked altogether by the tap from Monday to Friday?

What is the capacity of the bucket? \_\_\_\_\_

How many litres in half a bucket of water?

How many days from Monday to Friday? \_\_\_\_\_ days

Write a number sentence to show the problem: \_\_\_\_\_

How many buckets of water were leaked from Monday to Friday?

\_\_\_\_\_ bucketsful

**188** Grade 4 Mathematics





### Activity 1

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Work with your partner.

 Container H has a capacity of 200 m<sup>l</sup>. Juice is poured into it. The volume of the juice is half of the capacity.

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$\displaystyle\frown$	Container H	>



**a** Which container has the more juice, Container H or Jug C? How much more?

The volume of juice in Container H = \_\_\_\_\_ m?

The volume of juice in Jug C = \_\_\_\_\_ mł

Which container has more juice?

Calculate the difference in the volume of juice in the two containers:

\_\_\_\_\_ ml – \_\_\_\_\_ ml = \_\_\_\_\_ ml

How much more juice is in the bigger container? \_\_\_\_\_ ml

**b** How much more juice can be poured into Jug C?

\_\_\_\_\_ ml - 80 ml = \_\_\_\_\_ ml.

So \_\_\_\_\_ mt more juice can be poured into Jug C.

- 2 The capacity of the fuel tank of a taxi is 75 *l*. The fuel tank is filled to capacity in the morning.
  - **a.** How much fuel was used on Monday if there was 18 ℓ left in the tank in the evening?

Write a number sentence to describe the problem: \_\_\_\_\_

Use the column method to work out the answer:

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Give the answer: \_\_\_\_\_\_ ℓ of fuel was used on Monday.

**b.** On Monday evening the taxi driver bought 25 ℓ of fuel at the garage. How much fuel is now in the tank?

Write a number sentence to describe the problem: \_\_\_\_\_

Use the column method to work out the answer:



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Give the answer: \_\_\_\_\_ ℓ of fuel is now in the tank.

**<sup>190</sup>** Grade 4 Mathematics

### Activity 2

Work with your partner to answer these questions.

1 Lucky poured 640 ml water from a jug holding a volume of 1,5 l of water. How much water was left in the jug?

 $( \blacklozenge$ 

**a** Read the word problem carefully. Underline the numbers and the question.

Lucky poured 640 mł water from a jug which had a volume of 1,5 ł.

How much water was left in the jug?

**b** Write a number sentence for the word problem. You need to have the same units when you calculate.



The number sentence is \_\_\_\_\_

**c** Give the answer.

\_\_\_\_\_mł was left in the jug.

- One bottle contains 750 ml oil.
   Mrs Tau used some of the oil.
   There was then 515 ml of oil left in the bottle.
   How much oil did she use?
  - **a** Read the word problem carefully. Underline the numbers and the question.

One bottle contains 750 m<sup>2</sup> oil.

Mrs Tau used some of the oil.

There was 515 m<sup>2</sup> of oil left in the bottle after she used some.

How much oil did she use?



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- **b** Write a number sentence for the word problem
- **c.** Find the answer.

Mrs Tau used \_\_\_\_\_ mł oil.

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- **3** Evelyn took 1 570 m<sup>2</sup> of milk from a container holding of 3<sup>1</sup><sub>2</sub> <sup>1</sup> of milk. How much milk was left in the container?
  - a Read the word problem carefully. Underline the numbers and the question.
     Evelyn took 1 570 ml of milk from a container holding of 3<sup>1</sup>/<sub>2</sub> l of milk.
     How much milk was left in the container?

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**b** Write a number sentence for the word problem. You need to have the same units when you calculate.

 $3\frac{1}{2}\ell =$ \_\_\_\_\_ml

The number sentence is \_\_\_\_\_

**c** Find the answer.

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\_\_\_\_\_ ml of milk was left in the container.

\_\_\_\_\_ l and \_\_\_\_\_ ml of milk was left in the container.

\_\_\_\_\_ℓ of milk was left in the container.

**192** Grade 4 Mathematics

### Activity 2

Work on this Activity on your own.

- There was 6 349 l water in the tank.
   David used 2 006 l to water the vegetable garden and another 1 500 ml to water a small pot plant.
   How much water did David use?
  - **a** Read the word problem carefully. Underline the numbers and the question.

There was 6 349 & water in the tank.

David used 2 006  $\ell$  to water the vegetable garden and another 1 500 m $\ell$  to water a small pot plant.

How much water did David use?



**b** Write a number sentence for the word problem. You need to have the same units when you calculate.

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2 006 l will become a very large number if we convert it to ml.

So, it is better to convert 1 500 mł to l: 1 500 ml = \_\_\_\_\_ l

The number sentence is \_\_\_\_\_

**c** Find the answer.

 $( \mathbf{\Phi} )$ 

David used \_\_\_\_\_\_ { of water to do the watering.

**d** How much water is left in the water tank after David did the watering? Write a number sentence:

Use the column method to find the answer.

	Th	Н	Т	0	,	t
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e. Give your answer in litres and millilitres: \_\_\_\_\_ { and \_\_\_\_ m{

2 The farmer used 13,2 & fertiliser and her neighbour used 15 100 m& fertiliser. How much more fertiliser did the one farmer use than the other farmer? Give your answer in litres.

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**a** Read the word problem carefully. Underline the numbers and the question.

The farmer used 13,2 ℓ fertiliser and her neighbour used 15 100 mℓ fertiliser.

How much more fertiliser did the one farmer use than the other farmer?

Give your answer in litres.

**b** Write a number sentence for the word problem. You must have the same units when you calculate.

We have to answer in litres, so it is better to convert 15 100 ml to l:

15 100 ml = \_\_\_\_\_ l

The number sentence is \_\_\_\_\_

**c** Find the answer.

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**d** Give the answer in litres.

The one farmer used \_\_\_\_\_\_ litres more fertiliser than the other farmer.

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Lesson 41: Capacity and volume in everyday life (2)

### HOMEWORK

A taxi driver started a day with a full tank of 65 l of fuel.
 At the end of the day there was 15 l of fuel left in the tank.
 How many litres of fuel did the taxi drive use?

The taxi driver used \_\_\_\_\_\_ ℓ of fuel.

2 Challenge! If the taxi driver used the fuel left over to drive 500 km, how far would he be able to drive using 1 ℓ fuel?

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The taxi driver drove 500 km using \_\_\_\_\_ ℓ of fuel. He could travel \_\_\_\_\_ km using 1 ℓ of fuel.

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## **Lesson 42: Consolidation**

Work on your own

1 Look at the containers and their capacities as you answer the questions.

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e containers in orde		A
$\bigcirc$	Hopkent	MILK
200 ml	250 ml	500 m/

- **a** What is the difference between the capacity of the yoghurt container and the cup?
- **b** How many containers of milk will be needed to fill a 2ℓ container?

2 l = \_\_\_\_\_ ml

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Answer: \_\_\_\_\_ milk containers will be needed.

**c** How many yoghurt containers will be needed to fill a half a litre?

Half a litre = \_\_\_\_\_ mł

Answer: \_\_\_\_\_\_ yoghurt containers will be needed.

**d** How many cups will be needed to fill a half a litre?

Half a litre = \_\_\_\_\_ mł

Answer: \_\_\_\_\_ cups will be needed.

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2 Look at the containers and their volumes as you answer the questions.

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**a** What does each little division/calibration/mark on each jug stand for?

Jug A \_\_\_\_\_

Jug B \_\_\_\_\_

Jug C \_\_\_\_\_

Jug D \_\_\_\_\_

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**b** What is the volume of the liquid in each jug?

Jug A	4	
Jug B	3	
Jug C		
Jug D	)	

**c** How much more liquid should be added to make each jug full to capacity?

Jug A	
Jug B	
Jug C	
Jug D	

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**d** How much liquid is there in total in the 4 jugs?

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**e** What is the difference between the amount of liquid in the jug with the highest volume and the jug with the lowest volume?

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- Sam made mixed fruit juice.
  He mixed 3/4 ℓ grape juice,
  1,2 ℓ orange juice,
  500 mℓ pawpaw juice and
  - 1 & orange juice.
  - **a** Convert the volumes so that they are all in the same unit.

$\frac{3}{4}\ell = -$	 	 	
1,2 ℓ =	 	 	
500 ml =	 	 	
1 l =			

- **b** Write a number sentence for this problem.
- **c** How much fruit juice is this altogether?



**d.** Write down the answer: There is \_\_\_\_\_\_ of juice.

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e. How much water must Sam add to make 5 ℓ mixed fruit juice?Write a number sentence for this problem.

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Do tł	ne ca	lcula	tion:	

Write down the answer: Sam must add \_\_\_\_\_\_ of water.

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## RESOURCES

### Lesson 10: Area

### Nomsa's vegetable garden

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Nomsa has planted a bed of spinach, a bed of beans and a bed of carrots.



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