Mathematics · Grade 7

Numbers, Operations and Relationships

Term 1–4 | 15 questions | CAPS-aligned

TOTAL 95 MARKS

NAME AND SURNAME _____ CLASS _____ DATE _____

Instructions

1. Read all the questions carefully before you begin writing.
2. Answer all the questions on the question paper itself.
3. Show all your working where the question asks for it.
4. Write neatly. Work that cannot be read cannot be marked.
5. You may use a pencil and a ruler for drawings.
6. Calculators are not allowed.

Question	Content of the question	Marks	Obtained
1	Multiple choice	4	
2	Matching	4	
3	True or false	5	
4	Short questions	13	
5	Integers and exponents	10	
6	Exponents and square roots	3	
7	Negative numbers	9	
8	Operations and number sentences	12	

Question	Content of the question	Marks	Obtained
9	Multiples and factors	5	
10	Fractions	3	
11	Ratio, percentage and financial mathematics	10	
12	Ratio and rate	4	
13	Percentages	5	
14	Financial mathematics	3	
15	Writing and rounding numbers	5	
	Total	95	
	Percentage		%

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1 Multiple choice

4 marks

Choose the correct answer and circle its letter.

PRACTICE EXAMPLE · DO THIS ONE TOGETHER FIRST

Calculate: −3 + 8

a −11 b 5 c 11

Start at −3 and count 8 up the number line: −3 + 8 = 5, so the answer is b. Circle the b.

This example does not count for marks. It only shows you how to answer.

1.1 Which integer lies halfway between −9 and 3 on a number line? **(1)**

(a) −3 (b) −6 (c) 3

1.2 What is the cube root of 64 ($\sqrt[3]{64}$)? **(1)**

(a) 8 (b) 4 (c) 16

1.3 What is 35% of R260? **(1)**

(a) R35 (b) R91 (c) R26

1.4 The ratio 36 : 54 in its simplest form is: **(1)**

(a) 4 : 6 (b) 3 : 4 (c) 2 : 3

2 Matching

4 marks

Match the description in COLUMN A with the correct word in COLUMN B. Write only the LETTER. One word is left over.

2.1 **(4)**

COLUMN A	COLUMN B	Answer
1. A number with exactly two factors: 1 and itself	A. Square root	1 = _____
2. A number that multiplied by itself gives a given number	B. Negative number	2 = _____
3. A fraction out of 100	C. Prime number	3 = _____
4. A number smaller than zero	D. Perimeter	4 = _____
	E. Percentage	

3 True or false

5 marks

3.1 State whether each statement is TRUE or FALSE. **(5)**

Statement	True / False
1. $-3 - 8 = -11$	
2. $-5 + 9 = -4$	
3. $3^2 + 4^2 = 5^2$	
4. $-3 + 8 = 8 + (-3)$	
5. $0{,}4 = \frac{1}{4}$	

4 Short questions

13 marks

4.1 Calculate: $-23 + 9$ **(1)**

4.2 Calculate: $-8 - (-15)$ **(1)**

4.3 Calculate: $-12 + 20$ **(1)**

4.4 Calculate: $6 - (-9)$ **(1)**

4.5 Write $5 \times 5 \times 5 \times 5 \times 5 \times 5$ in exponent form. **(1)**

4.6 Calculate: $2^4 + 4^2$ **(1)**

4.7 Write 0,45 as a common fraction in simplest form. **(1)**

4.8 Write 7/20 as a decimal fraction. **(1)**

4.9 Calculate 30% of R620. **(1)**

4.10 Write the ratio 24 : 64 in simplest form. **(1)**

4.11 Round 470 368 512 off to the nearest 1 000. **(1)**

4.12 Write 308 004 060 in expanded notation. **(1)**

4.13 What is the value of √169? **(1)**

5 Integers and exponents

10 marks

5.1 Calculate the following. Write the answer in the table. **(4)**

Sum	Answer
−21 + 6	
−9 − (−17)	
14 + (−20)	
−8 − 9	

5.2 Calculate: $2^5 - 3^3 + 6^2$ **(2)**

5.3 Write 540 as a product of its prime factors. **(2)**

5.4 The temperature in Upington was −4 °C at 06:00 and 19 °C at 14:00. By how many degrees did it rise? **(2)**

6 Exponents and square roots

3 marks

6.1 Calculate: 2^5 **(2)**

6.2 Calculate: $\sqrt{144} - \sqrt{36}$ **(1)**

7 Negative numbers

9 marks

7.1 Arrange the numbers from the SMALLEST to the LARGEST. **(3)**

4 · −12 · −3 · 0 · −8 · 9

7.2 Calculate. **(3)**

a. −9 + 4 = _____ b. 5 − 12 = _____ c. −6 − 7 = _____

7.3 The temperature was 9 °C at 15:00. By midnight it had dropped by 13 degrees. What was the temperature at midnight? **(3)**

8 Operations and number sentences

12 marks

8.1 Calculate 649 × 58 using long multiplication. **(3)**

			6	4	9
		×		5	8
+					

8.2 Calculate 8 704 ÷ 34 using long division. **(3)**

$$34 \overline{)\,8\;7\;0\;4}$$

8.3 Calculate: 3,25 × 0,6 **(2)**

8.4 Calculate: $2\frac{1}{2} \times \frac{4}{5}$ **(2)**

8.5 Calculate using the order of operations: $30 - 2 \times (7 - 3)^2$ **(2)**

9 Multiples and factors

5 marks

9.1 Write down all the factors of 60. **(2)**

9.2 Write down the first four multiples of 9. **(1)**

9.3 Write 252 as a product of its prime factors. **(2)**

10 Fractions

3 marks

10.1 Calculate: $\frac{3}{4} + \frac{5}{6}$ **(2)**

10.2 Calculate $\frac{2}{5}$ of 35. **(1)**

11 Ratio, percentage and financial mathematics

10 marks

11.1 Divide R1 500 in the ratio 1 : 2 : 3. **(2)**

11.2 The price of a bus ticket goes up from R60 to R84. Calculate the percentage increase. Show your working. **(3)**

11.3 Lebo borrows R2 400 at 12% simple interest per year. How much must she pay back altogether after 2 years? Show your working. **(3)**

11.4 Rice is sold in a 500 g bag for R32 and in a 750 g bag for R45. Which bag is the better buy? Show your working. **(2)**

12 Ratio and rate

4 marks

12.1 The ratio of boys to girls in a class is 3 : 5. There are 40 learners in the class. How many girls are there? **(2)**

12.2 A taxi travels 252 km in 3 hours. What is its average speed in kilometres per hour? **(2)**

13 Percentages

5 marks

13.1 A bicycle costs R3 200. In a sale it is 15% cheaper. How much do you pay? **(3)**

13.2 A test is out of 45 marks. Sipho scores 27. What is his percentage? **(2)**

14 Financial mathematics

3 marks

14.1 A shopkeeper buys a radio for R1 200 but can only sell it for R960. Calculate the loss as a percentage of the cost price. **(3)**

15 Writing and rounding numbers

5 marks

15.1 Write in figures. **(2)**

a. three hundred and five million, forty thousand and nine: _____

b. sixty million, two hundred thousand and seventy: _____

15.2 Round off to TWO decimal places. **(3)**

a. 3,476 → _____ b. 12,825 → _____ c. 0,604 → _____

Total **95 marks**



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