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PAPER 1

Practice test · Term 1–4
Version 1.8 · 22 October 2026

Mathematics · Grade 7

Numbers, Operations and Patterns

Term 1–4 | 5 questions | CAPS-aligned

TOTAL 50 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	6	
2	Integers and exponents	10	
3	Operations and number sentences	12	
4	Ratio, percentage and financial mathematics	10	
5	Patterns and algebra	12	
	Total	50	
	Percentage		%

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Section A

1 Multiple choice

6 marks

Choose the correct answer and circle the letter next to it.

1.1 Calculate: $-7 + 12 - (-4)$ **(1)**

(a) 1 (b) −15 (c) 9

1.2 What is the value of 2^5? **(1)**

(a) 32 (b) 10 (c) 25

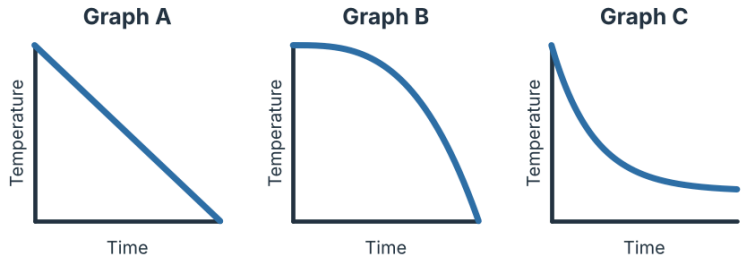
1.3 If $x = 4$, what is the value of $3x + 5$? **(1)**

(a) 12 (b) 17 (c) 35

1.4 Which value of x makes this number sentence true? $x + 9 = 4$ **(1)**

(a) $x = 5$ (b) $x = -5$ (c) $x = 13$

Look at graphs A, B and C below.



1.5 Which graph shows this situation? "A cup of tea cools down quickly at first and then more and more slowly." **(1)**

(a) Graph A (b) Graph B (c) Graph C

1.6 The ratio 45 : 60 in its simplest form is: **(1)**

(a) 9 : 12 (b) 3 : 4 (c) 5 : 6

Section B — Short questions

2 Integers and exponents — 10 marks

2.1 Calculate the following. Show your working. **(4)**

Sum	Answer
−15 + 8	
−6 − (−11)	
9 + (−14)	
−7 − 5	

2.2 Calculate: $3^3 + 4^2 - 2^5$ **(2)**

2.3 Write 720 as a product of its prime factors. **(2)**

2.4 The temperature in Sutherland was −6 °C at 05:00 and 11 °C at 13:00. By how many degrees did it rise? **(2)**

3 Operations and number sentences — 12 marks

3.1 Calculate 738 × 46 using long multiplication. **(3)**

			7	3	8
		×		4	6
+					

3.2 Calculate 9 576 ÷ 42 using long division. **(3)**

$$42 \overline{)\,9\;5\;7\;6}$$

3.3 Calculate: 12,6 × 0,4 **(2)**

3.4 Calculate: $\frac{3}{4} \times \frac{2}{5}$ **(2)**

3.5 Calculate using the order of operations: $24 - 3 \times (8 - 5)^2$ **(2)**

4 Ratio, percentage and financial mathematics

10 marks

4.1 Divide R1 260 in the ratio 2 : 3 : 4. **(2)**

4.2 A shopkeeper buys a bicycle for R1 800 and sells it for R2 250. Calculate the profit as a percentage of the cost price. **(3)**

4.3 Thandi invests R5 000 at 8% simple interest per year. How much interest does she earn over 3 years? **(3)**

4.4 A car travels 540 km on 45 litres of petrol. How many kilometres does it travel per litre? **(2)**

5 Patterns and algebra

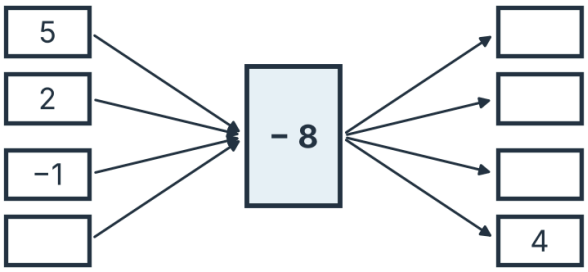
12 marks

5.1 Study the pattern and complete the table. **(3)**

Term number (n)	1	2	3	10
Term	5	8	11	

5.2 Write a general rule for the pattern in 5.1 that gives the term from the term number n. **(2)**

5.3 Complete the flow diagram. **(3)**



5.4 Solve by inspection, and check your answer: $5x + 8 = 43$ **(2)**

5.5 A plumber charges R250 for a call-out plus R180 per hour. Write a formula for the total cost (C) if he works h hours, and calculate the cost for 4 hours. **(2)**

Total **50 marks**



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