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PRACTICE EXAM

Practice test · Term 1–4
Version 1.6 · 21 October 2026

Mathematics · Grade 7

November

Term 1–4 | 9 questions | CAPS-aligned

TOTAL 90 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	Numbers in context	11	
4	Algebraic expressions	10	
5	Equations and patterns	13	
6	Lines and 3D objects	9	
7	Shapes and transformations	13	
8	Measurement	9	
9	Data Handling	9	
	Total	**90**	
	Percentage		%

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1 Multiple choice

6 marks

Choose the correct answer and circle its letter.

PRACTICE EXAMPLE · DO THIS ONE TOGETHER FIRST

What is −5 + 8?

a 3 b −13 c 13

−5 + 8 = 3, so the answer is a. Circle the a.

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

1.1 What is −13 + 4? **(1)**

(a) −17 (b) 17 (c) −9

1.2 6^3 means: **(1)**

(a) 6 × 6 × 6 (b) 6 × 3 (c) 3 × 3

1.3 In the expression 4m − 9n + 12 the CONSTANT is: **(1)**

(a) 4 (b) 12 (c) −9

1.4 Which statement is TRUE? **(1)**

(a) −9 > −4 (b) −9 < −4 (c) −9 = −4

1.5 A triangle with one angle bigger than 90° is called: **(1)**

(a) obtuse-angled (b) equilateral (c) acute-angled

1.6 The difference between the largest and smallest value is called the: **(1)**

(a) mode (b) range (c) median

2 Integers and exponents

10 marks

2.1 Calculate. **(4)**

a. −11 + 6 = _____ b. −11 − (−15) = _____

c. −11 + (−7) = _____ d. 6 − (−11) = _____

2.2 Write as an ordinary number. **(3)**

a. 5^3 = _____ b. 2^4 = _____ c. $5^3 + 2^4$ = _____

2.3 Write 252 as a product of prime factors. **(3)**

3 Numbers in context — 11 marks

3.1 What is the HCF and the LCM of 84 and 126? **(2)**

3.2 Calculate 15% of R720. **(3)**

3.3 Share 154 in the ratio 2 : 9. **(3)**

3.4 Write as a decimal fraction and as a percentage: **(3)**

a. $\frac{1}{4}$ = _____ = _____ b. $\frac{4}{5}$ = _____ = _____ c. $\frac{7}{8}$ = _____ = _____

4 Algebraic expressions — 10 marks

4.1 Write a number sentence for each problem. Then find the unknown number by inspection. **(4)**

a. I think of a number x. I add 15 and get 42.

Number sentence: _____ x = _____

b. Three boxes of the same mass weigh 36 kg together. Each box has a mass of m kg.

Number sentence: _____ m = _____

4.2 If a = 4 and b = −7, calculate: **(3)**

a. 3a + b = _____ b. $a^2 - b$ = _____

4.3 Write an algebraic expression for each sentence. **(3)**

a. 11 more than a number n: _____

b. 3 times a number n: _____

c. 7 less than a number n: _____

5 Equations and patterns

13 marks

5.1 Solve for x. **(3)**

a. 9x + 4 = 76

b. 4(x + 6) = 44

5.2 Look at the pattern: 3 ; 6 ; 12 ; 24 ; _____ **(3)**

a. The next term: _____

b. The rule in words: _____

c. Which term in the pattern is 192? _____

5.3 The rule is y = 3x − 2. Complete the table. **(4)**

x	2	5		
y			22	37

5.4 A cellphone plan costs R95 a month plus R2 per call. **(3)**

a. What is the total cost for a month with 20 calls? _____

b. Write a rule for the total cost for a month with n calls: _____

c. What is the total cost for a month with 50 calls? _____

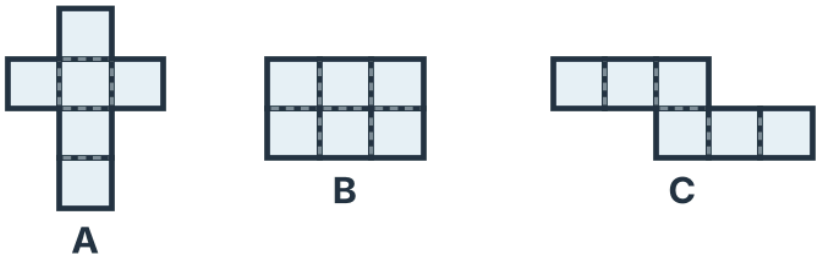
6 Lines and 3D objects

9 marks

6.1 Complete the table. **(2)**

Object	Faces	Edges	Vertices
Square-based pyramid			

6.2 Look at nets A, B and C. Which TWO nets fold to make a cube? **(2)**



The two nets: _____ and _____

6.3 Write the names of the TWO polyhedra in this list: cone ; cube ; sphere ; cylinder ; triangular prism **(2)**

_____

_____

6.4 Explain in your own words. **(3)**

a. Parallel lines:

_____

b. Intersecting lines:

_____

c. The difference between a line segment and a ray:

_____

7 Shapes and transformations

13 marks

7.1 Write next to each description what kind of triangle it is. **(3)**

Description	Kind
Three equal sides	
Two equal sides	
One angle of 90°	

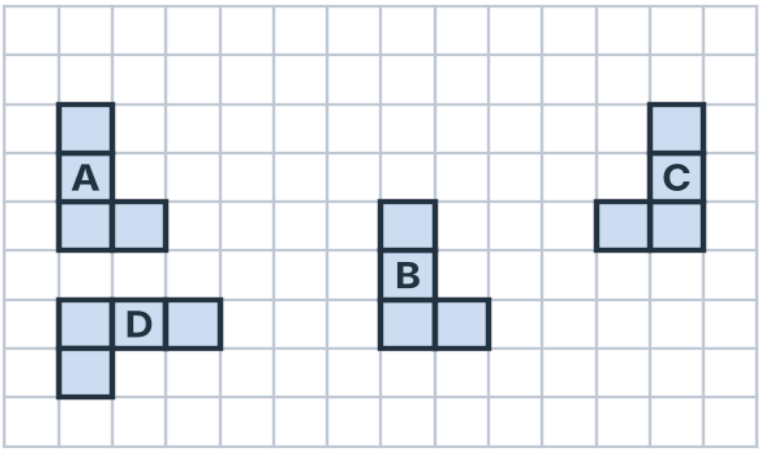
7.2 Write the name of the part of a circle that fits each description. **(3)**

a. A straight line between two points on the circle: _____

b. The piece between two radii: _____

c. From the centre to the edge: _____

7.3 Look at the grid. Name the transformation that moves shape A onto: **(3)**



a. shape B: _____

b. shape C: _____

c. shape D: _____

7.4 Describe the translation from shape A to shape B. Say how many squares left or right AND how many squares up or down. **(2)**

_____

7.5 Name TWO properties of a rectangle. **(2)**

_____

_____

8 Measurement

9 marks

8.1 A rectangular box is 12 cm long, 11 cm wide and 6 cm high. **(4)**

a. Perimeter of the base: _____

b. Area of the base: _____

c. Volume of the box: _____

8.2 Convert. **(3)**

a. 3,5 m² = _____ cm²

b. 2 500 mm² = _____ cm²

c. 750 mℓ = _____ cm³

8.3 A room's floor is 6 m by 5 m. Tiles of 50 cm by 50 cm are used. How many tiles are needed? **(2)**

_____

_____

9 Data Handling

9 marks

9.1 The stem-and-leaf display shows how many push-ups 12 learners did in one minute. **(5)**

Key: 2 | 1 means 21

Stem	Leaf
1	2 5 8
2	1 1 1 4 6
3	0 3 5 9

a. The smallest number: _____

b. The largest number: _____

c. The range: _____

d. The mode: _____

e. The median: _____

9.2 A school has 900 learners. To find out how learners travel to school, Mr Dlamini asks 60 learners, chosen at random from all the grades. **(2)**

a. What is the population? _____

b. What is the sample? _____

9.3 You toss a coin once. **(2)**

a. List all the possible outcomes: _____

b. What is the probability of getting heads? Give your answer as a fraction AND as a percentage: _____

Total **90 marks**



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