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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 −8 + 3? **(1)**

(a) −11 (b) −5 (c) 11

1.2 4^3 means: **(1)**

(a) 4 × 4 (b) 4 + 4 + 4 (c) 4 × 4 × 4

1.3 In the expression 3x − 7y + 15 the CONSTANT is: **(1)**

(a) 15 (b) 3 (c) −7

1.4 Count backwards in 3s: 7 ; 4 ; 1 ; −2 ; _____ **(1)**

(a) −5 (b) −1 (c) 5

1.5 Two straight lines that stay the same distance apart and never meet are: **(1)**

(a) perpendicular (b) parallel (c) intersecting

1.6 The middle value of ordered data is called the: **(1)**

(a) median (b) mean (c) range

2 Integers and exponents

10 marks

2.1 Calculate. **(4)**

a. −9 + 5 = _____ b. −9 − (−10) = _____

c. −9 + (−7) = _____ d. 5 − (−9) = _____

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

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

2.3 Write 308 as a product of prime factors. **(3)**

3 Numbers in context — 11 marks

3.1 What is the HCF and the LCM of 56 and 84? **(2)**

3.2 Calculate 20% of R840. **(3)**

3.3 Work with these integers. **(3)**

a. Arrange from the SMALLEST to the LARGEST: 7 ; −12 ; 0 ; −3 ; 5 ; −20

b. Write < or >: −45 _____ −54

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

a. $\frac{5}{8}$ = _____ = _____ b. $\frac{3}{4}$ = _____ = _____ c. $\frac{1}{5}$ = _____ = _____

4 Algebraic expressions — 10 marks

4.1 The rule for the pattern 1 ; 3 ; 5 ; 7 ; 9 ; … is term = 2n − 1. **(4)**

a. What does n stand for in this rule? _____

b. Use the rule to find the 25th term. _____

c. Which term in the pattern is 79? _____

d. Thabo's mother is 25 years older than Thabo. Thabo is x years old. Write an expression for his mother's age: _____

4.2 If a = 3 and b = −9, calculate: **(3)**

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

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

a. 5 more than a number n: _____

b. 12 times a number n: _____

c. 6 less than a number n: _____

5 Equations and patterns

13 marks

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

a. $8x + 7 = 71$

b. $2(x + 9) = 26$

5.2 Look at the pattern: 1 ; 4 ; 9 ; 16 ; _____ **(3)**

a. The next term: _____

b. The rule in words: _____

c. The 12th term: _____

5.3 Complete the flow diagram. **(4)**

x → × 3 → − 8 → y

x	1	3	6	10
y				

5.4 A cellphone plan costs R120 a month plus R3 per call. **(3)**

a. What is the total cost for a month with 14 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 45 calls? _____

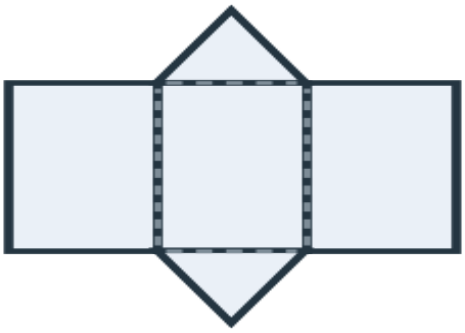
6 Lines and 3D objects

9 marks

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

Object	Faces	Edges	Vertices
Tetrahedron (triangular pyramid)			

6.2 Look at the net. **(2)**



a. Name the 3D object that the net folds into: _____

b. How many vertices will the object have? _____

6.3 Write TWO ways in which a cube and a rectangular prism are the same. **(2)**

_____

_____

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

a. Parallel lines:

_____

b. Perpendicular 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°	

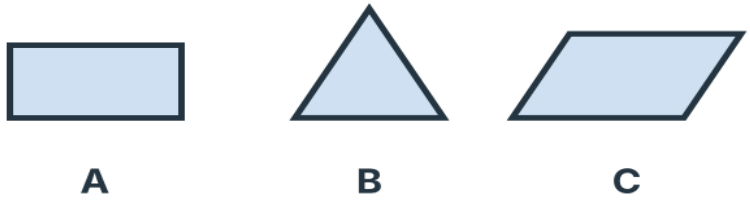
7.2 Write the name of the part of a circle that fits each description. **(3)**

a. The piece between two radii: _____

b. From the centre to the edge: _____

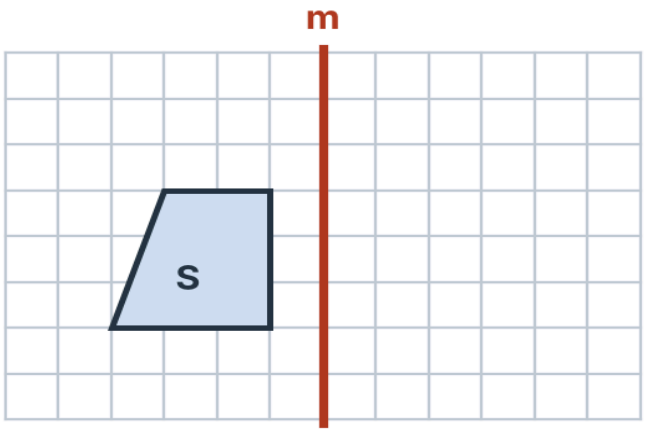
c. Right through the centre: _____

7.3 Write the number of lines of symmetry of each shape. **(3)**



A: _____ B: _____ C: _____

7.4 Reflect shape S in the mirror line m. Draw the image on the grid. **(2)**



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

_____

_____

8 Measurement

9 marks

8.1 A rectangular box is 16 cm long, 10 cm wide and 5 cm high. **(4)**

a. Perimeter of the base: _____

b. Area of the base: _____

c. Volume of the box: _____

8.2 Convert. **(3)**

a. 80 000 cm^2 = _____ m^2

b. 1 250 cm^3 = _____ ℓ

c. 3,2 km = _____ m

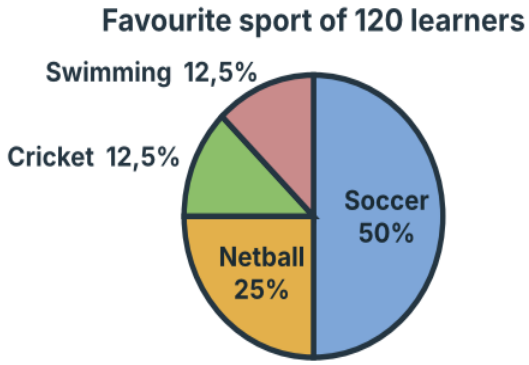
8.3 A room's floor is 8 m by 6 m. Tiles of 50 cm by 50 cm are used. How many tiles are needed? **(2)**

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9 Data Handling

9 marks

9.1 The pie chart shows the favourite sport of 120 Grade 7 learners. **(5)**



a. Which sport is the most popular? _____

b. What percentage of the learners chose netball? _____

c. How many learners chose soccer? _____

d. How many learners chose cricket? _____

e. What common fraction of the learners chose swimming? _____

9.2 The monthly pocket money of 7 learners is: R50 ; R60 ; R60 ; R70 ; R80 ; R90 ; R700. **(2)**

a. Which gives a better picture of a typical learner's pocket money: the mean or the median?

_____

b. Give a reason: _____

9.3 A spinner has 8 equal parts numbered 1 to 8. What is the probability that it stops on an even number? Give your answer as a fraction and as a percentage. **(2)**

Total **90 marks**



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