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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 and graphs	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 −2 + 9? **(1)**

(a) 7 (b) −11 (c) 11

1.2 3^5 means: **(1)**

(a) 3 × 5 (b) 3 × 3 × 3 × 3 × 3 (c) 5 × 5

1.3 In the expression 6p + 11 the CONSTANT is: **(1)**

(a) 6 (b) p (c) 11

1.4 Which list is arranged from the SMALLEST to the LARGEST? **(1)**

(a) −2 ; −5 ; 0 ; 3 (b) −5 ; −2 ; 0 ; 3 (c) 3 ; 0 ; −2 ; −5

1.5 A triangle with three different sides is called: **(1)**

(a) equilateral (b) scalene (c) isosceles

1.6 The total divided by the number of values is called the: **(1)**

(a) mode (b) median (c) mean

2 Integers and exponents

10 marks

2.1 Calculate. **(4)**

a. −3 + 8 = _____ b. −3 − (−14) = _____

c. −3 + (−7) = _____ d. 8 − (−3) = _____

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

a. 2^6 = _____ b. 4^2 = _____ c. $2^6 + 4^2$ = _____

2.3 Write 196 as a product of prime factors. **(3)**

3 Numbers in context

11 marks

3.1 What is the HCF and the LCM of 96 and 144? **(2)**

3.2 Calculate 32% of R550. **(3)**

3.3 At 05:00 the temperature in Sutherland was −6 °C. By 14:00 it had risen by 15 °C. By 22:00 it had dropped by 9 °C from the 14:00 temperature. **(3)**

a. What was the temperature at 14:00? _____

b. What was the temperature at 22:00? _____

c. How many degrees warmer was it at 22:00 than at 05:00? _____

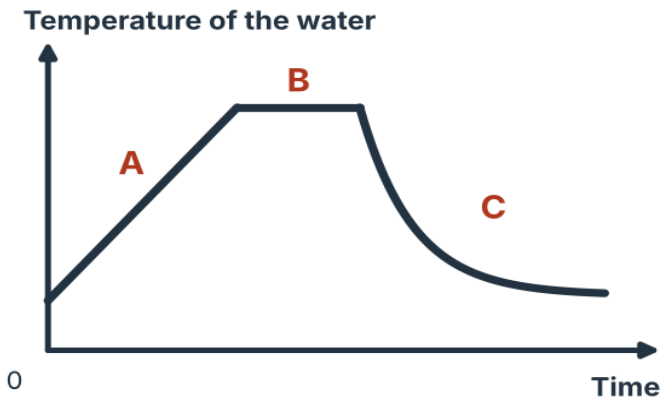
3.4 Write as a decimal fraction and as a percentage: **(3)**

a. $\frac{3}{8}$ = _____ = _____ b. $\frac{2}{5}$ = _____ = _____ c. $\frac{3}{4}$ = _____ = _____

4 Algebraic expressions and graphs

10 marks

4.1 The global graph shows the temperature of the water in a kettle. The kettle is switched on, the water boils for a while, and then the kettle is switched off. **(4)**



a. In which part (A, B or C) is the temperature increasing? _____

b. In which part is the temperature constant? _____

c. Describe how the temperature changes in part C. _____

d. Is part C linear or non-linear? How can you tell? _____

4.2 If a = 8 and b = −2, calculate: **(3)**

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

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

a. 8 more than a number n: _____

b. 9 times a number n: _____

c. 4 less than a number n: _____

5 Equations and patterns

13 marks

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

a. 6x + 11 = 59

b. 6(x + 3) = 54

5.2 Squares are made with matchsticks. Look at the pattern. **(3)**



a. Figure 4 needs _____ matchsticks.

b. Write the rule for the number of matchsticks in Figure n: _____

c. How many matchsticks are needed for Figure 20? _____

5.3 Look at the table. **(4)**

a. Write the rule as a formula: y = _____

b. Complete the table.

x	1	2	3	4	10	
y	7	11	15	19		83

5.4 A cellphone plan costs R70 a month plus R5 per call. **(3)**

a. What is the total cost for a month with 10 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 30 calls? _____

6 Lines and 3D objects

9 marks

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

Object	Faces	Edges	Vertices
Rectangular prism			

6.2 A hexagonal prism: **(2)**

a. How many faces does it have? _____

b. Name the shapes of its faces: _____

6.3 In the space below, sketch a net of a square-based pyramid. **(2)**

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

a. Perpendicular 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)**

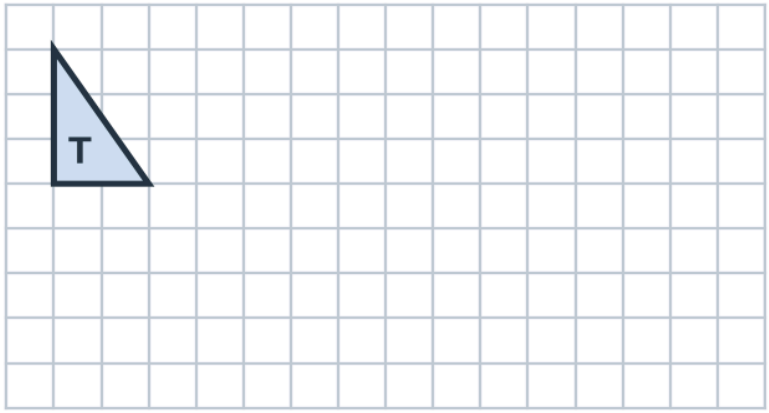
a. The distance around the circle: _____

b. Right through the centre: _____

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

7.3 Look at the grid. **(3)**

a. On the grid, draw an enlargement of triangle T with a factor of 2.



b. Compare the angles of T with the angles of your enlargement: _____

7.4 A rectangle of 4 cm by 3 cm is enlarged to a rectangle of 12 cm by 9 cm. **(2)**

a. What is the factor of enlargement? _____

b. Are the two rectangles congruent or similar? _____

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

_____

_____

8 Measurement

9 marks

8.1 A rectangular box is 20 cm long, 8 cm wide and 3 cm high. **(4)**

a. Perimeter of the base: _____

b. Area of the base: _____

c. Volume of the box: _____

8.2 Convert. **(3)**

a. 6 cm^2 = _____ mm^2

b. 2 m^3 = _____ kℓ

c. 3,5 ℓ = _____ cm^3

8.3 A room's floor is 10 m by 4 m. Tiles of 50 cm by 50 cm are used. How many tiles are needed? **(2)**

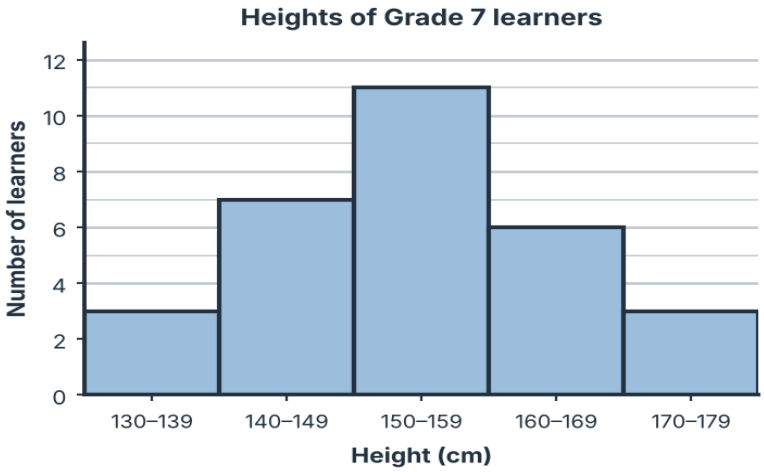
_____

_____

9 Data Handling

9 marks

9.1 The histogram shows the heights of 30 Grade 7 learners. **(5)**



a. How many learners are 150–159 cm tall? _____

b. In which interval are the most learners? _____

c. How many learners are shorter than 150 cm? _____

d. How many learners are 160 cm or taller? _____

e. Why do the bars of a histogram touch each other? _____

9.2 Use the histogram in 9.1. **(2)**

a. Write ONE conclusion about the heights of these learners: _____

b. Another Grade 7 learner joins the class. In which interval is his height most likely to be? Give a reason: _____

9.3 You roll an ordinary die once. **(2)**

a. List all the possible outcomes: _____

b. What is the probability of rolling a number bigger than 4? _____

Total **90 marks**



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