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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 −7 + 11? **(1)**

(a) −18 (b) 4 (c) 18

1.2 2^5 means: **(1)**

(a) 2 × 5 (b) 5 × 5 (c) 2 × 2 × 2 × 2 × 2

1.3 In the expression 7a + 2b − 5 the CONSTANT is: **(1)**

(a) −5 (b) 7 (c) 2

1.4 Which integer is the SMALLEST? **(1)**

(a) −3 (b) 2 (c) −8

1.5 An angle bigger than 180° but smaller than 360° is called: **(1)**

(a) an obtuse angle (b) a straight angle (c) a reflex angle

1.6 The smaller group from the population that is actually asked in a survey is called the: **(1)**

(a) sample (b) population (c) range

2 Integers and exponents

10 marks

2.1 Calculate. **(4)**

a. −5 + 9 = _____ b. −5 − (−8) = _____

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

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

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

2.3 Write 240 as a product of prime factors. **(3)**

3 Numbers in context

11 marks

3.1 What is the HCF and the LCM of 60 and 90? **(2)**

3.2 Calculate 24% of R625. **(3)**

3.3 Share 135 in the ratio 4 : 5. **(3)**

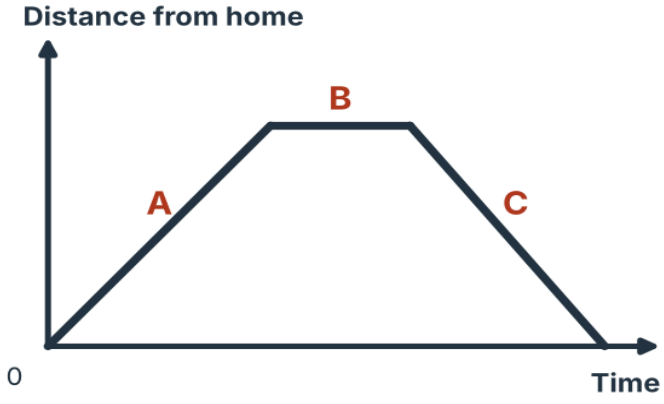
3.4 Write as a decimal fraction and as a percentage: **(3)**

a. $\frac{1}{2}$ = _____ = _____ b. $\frac{3}{5}$ = _____ = _____ c. $\frac{1}{8}$ = _____ = _____

4 Algebraic expressions and graphs

10 marks

4.1 The global graph shows Lindi's distance from home when she walks to the shop and back home. **(4)**



a. What happens to her distance from home in part A? _____

b. What does the flat part B tell you about Lindi? _____

c. In which part does her distance from home DECREASE? _____

d. Is part A of the graph linear or non-linear? _____

4.2 If a = 6 and b = −4, calculate: **(3)**

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

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

a. 6 more than a number n: _____

b. 4 times a number n: _____

c. 8 less than a number n: _____

5 Equations and patterns

13 marks

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

a. 5x + 8 = 63

b. 5(x + 2) = 40

5.2 Look at the pattern: 8 ; 14 ; 20 ; 26 ; _____ **(3)**

a. The next term: _____

b. The rule in words: _____

c. The 15th term: _____

5.3 The rule is y = 4x + 1. Complete the table. **(4)**

x	1	4	7	10
y				

5.4 A cellphone plan costs R65 a month plus R4 per call. **(3)**

a. What is the total cost for a month with 15 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 35 calls? _____

6 Lines and 3D objects

9 marks

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

Object	Faces	Edges	Vertices
Triangular prism			

6.2 Name the 3D object. **(2)**

a. It has 1 square face and 4 triangular faces: _____

b. It has 2 flat circular faces and one curved surface: _____

6.3 Write TWO differences between a prism and a pyramid. **(2)**

_____

_____

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

a. Perpendicular lines:

_____

b. Parallel 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. Right through the centre: _____

b. From the centre to the edge: _____

c. The piece cut off by a chord: _____

7.3 What is the difference between CONGRUENT and SIMILAR figures? **(3)**

7.4 Name the THREE transformations that do NOT change a shape's size. **(2)**

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

8 Measurement

9 marks

8.1 A rectangular box is 18 cm long, 7 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. 2,45 km = _____ m

b. 3,75 m^2 = _____ cm^2

c. 5 ℓ = _____ cm^3

8.3 A room's floor is 8 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 Here are the test marks of 10 learners: 14 ; 16 ; 19 ; 22 ; 25 ; 28 ; 31 ; 33 ; 37 ; 39 **(5)**

a. Calculate the MEAN:

b. Calculate the MEDIAN: _____

c. Calculate the RANGE: _____

d. Group the data in intervals of 10, starting with 10–19, and write how many marks fall in each interval. Use only the rows you need.

Interval	Number of marks
10–19	

9.2 A learner wants to know which sport the school's 650 learners prefer, but asks only her own team. What is wrong, and how does she fix it? **(2)**

9.3 A bag has 6 red, 3 blue and 3 green marbles. What is the chance of drawing a blue one? **(2)**

Total **90 marks**



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