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PRACTICE EXAM

Practice test · Term 1–4
Version 1.8 · 22 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, a ruler, a protractor and a compass 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	Integers and algebraic expressions	10	
5	Equations and patterns	13	
6	Angles, lines and transformations	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.

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

1.1 What is −7 + 4? **(1)**

(a) −3 (b) −11 (c) 11

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

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

1.3 In the expression 5x − 3y + 8 the CONSTANT is: **(1)**

(a) 5 (b) −3 (c) 8

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

(a) −8 > −3 (b) −8 < −3 (c) −8 = −3

1.5 An angle that is exactly half a turn is called: **(1)**

(a) a right angle (b) a straight angle (c) a revolution

1.6 The whole group a survey wants to know about is called the: **(1)**

(a) sample (b) median (c) population

2 Integers and exponents

10 marks

2.1 Calculate. **(4)**

a. −9 + 5 = _____ b. −7 − (−12) = _____

c. −7 + (−7) = _____ d. 4 − (−7) = _____

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

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

2.3 Write 180 as a product of prime factors. **(3)**

3 Numbers in context

11 marks

3.1 What is the HCF and the LCM of 48 and 72? **(2)**

3.2 Calculate 18% of R450. **(3)**

3.3 Share 120 in the ratio 3 : 7. **(3)**

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

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

4 Integers and algebraic expressions

10 marks

4.1 Write the missing integer in each box to make the number sentence true. **(4)**

a. $-6 + \square = -2$ b. $\square - 5 = -9$

c. $-3 + 7 = 7 + \square$ d. $(-4 + 9) + 1 = -4 + (\square + 1)$

4.2 If a = 5 and b = −3, calculate: **(3)**

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

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

a. 9 more than a number n: _____

b. 7 times a number n: _____

c. 5 less than a number n: _____

5 Equations and patterns

13 marks

5.1 Solve by inspection or by trial and improvement. Check your answer. **(3)**

a. $7x + 3 = 52$ b. $3(x + 4) = 27$

5.2 Look at the pattern: 5 ; 12 ; 19 ; 26 ; _____ **(3)**

a. The next term: _____

b. The rule in words: _____

c. The 15th term: _____

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

x	1	4	7	10
y				

5.4 A cellphone plan costs R80 a month plus R3 per call. **(3)**

a. What is the total cost for a month with 12 calls? _____

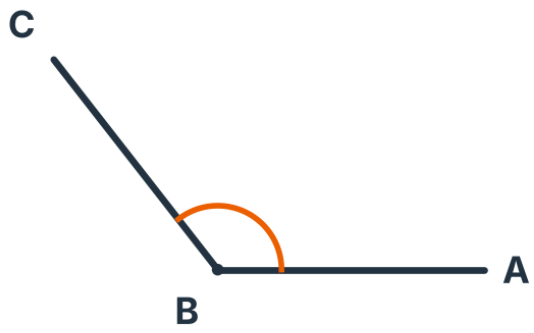
b. Write the rule for n calls: _____

c. What is the total cost for a month with 40 calls? _____

6 Angles, lines and transformations

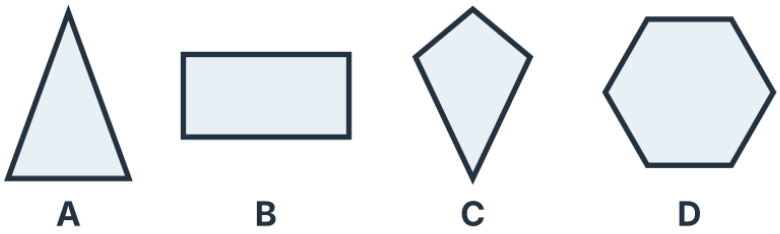
9 marks

6.1 Measure angle ABC with your protractor. Write down its size and the kind of angle. **(2)**

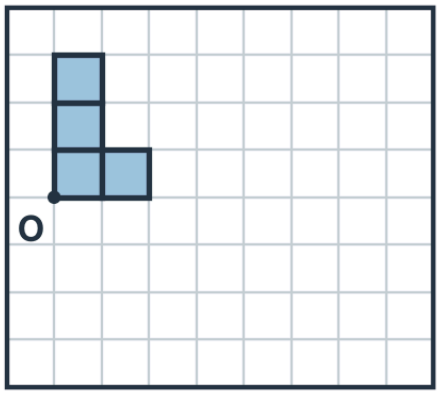


Size: _____ Kind: _____

6.2 Draw ALL the lines of symmetry on shapes A and B. **(2)**



6.3 Rotate the shape 90° clockwise about point O. Draw the image on the grid. **(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. From the centre to the edge: _____

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

c. The piece between two radii: _____

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 parallelogram. **(2)**

8 Measurement

9 marks

8.1 A rectangular box is 15 cm long, 9 cm wide and 4 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 kg = _____ g

c. 5 ℓ = _____ cm^3

8.3 A room's floor is 6 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 stem-and-leaf display shows the test marks of 10 learners. **(5)**

Stem	Leaf
2	3 5 7
3	1 4 6 8
4	2 5 7

Key: 2 | 3 means 23

a. Calculate the MEAN: _____

b. Calculate the MEDIAN: _____

c. Calculate the RANGE: _____

d. Group the data in intervals of 10 and write how many fall in each interval: _____

9.2 A learner wants to know which sport the school's 600 learners prefer, but asks only her own team. What is wrong, and how does she fix it? **(2)**

9.3 A bag has 4 red, 5 blue and 3 green marbles. What is the chance of drawing a blue one? **(2)**

Total **90 marks**



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