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PRACTICE EXAM

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

Mathematics · Grade 6

November

Term 1–4 | 10 questions | CAPS-aligned

TOTAL
100
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	Large numbers	7	
3	Operations	15	
4	Factors, multiples and prime factors	9	
5	Fractions, decimals and percentages	10	
6	Ratio and problem solving	3	
7	Patterns, functions and algebra	10	
8	Space and Shape	15	
9	Measurement	15	
10	Data Handling	10	
	Total	100	
	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 25% of 200?

a 25 b 50 c 75

25% is a quarter. 200 ÷ 4 = 50. The answer is b.

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

1.1 What is the value of the 1 in 6 135 407? **(1)**

(a) 10 000 (b) 1 000 (c) 100 000

1.2 Which one is a prime factor of 126? **(1)**

(a) 2 (b) 6 (c) 9

1.3 0,24 as a percentage is: **(1)**

(a) 2,4% (b) 24% (c) 0,24%

1.4 Which number sentence shows the commutative property of multiplication? **(1)**

(a) 37 × 9 = 9 × 37 (b) 37 × 9 = 37 × 10 − 37 (c) 37 × 1 = 37

1.5 How many millilitres are there in 1 litre? **(1)**

(a) 1 000 (b) 100 (c) 10 000

1.6 The value that occurs most often in a data set is called the: **(1)**

(a) median (b) mode (c) total

2 Large numbers

7 marks

2.1 Count on in 5 000s. Write the next THREE numbers. **(2)**

320 000 — _____ — _____ — _____

2.2 Round off 2 963 157. **(3)**

a. nearest 100: _____ b. nearest 10 000: _____ c. nearest 1 000 000: _____

2.3 Write <, > or = on the line. **(2)**

a. 2 963 157 _____ 1 275 894 b. 1 275 894 _____ 2 963 157

3 Operations

15 marks

3.1 Calculate 2 963 157 + 1 275 894. **(3)**

3.2 Calculate 2 963 157 − 1 275 894 and check by adding. **(3)**

3.3 Calculate 1 975 × 157. **(3)**

3.4 Calculate 7 548 ÷ 148. Show your working. **(3)**

148 | 7 5 4 8

3.5 Calculate. Watch the order of operations. **(3)**

a. 11 + 6 × 4 = _____

b. (6 + 9) × 4 = _____

c. 64 ÷ (3 + 5) = _____

4 Factors, multiples and prime factors

9 marks

4.1 Write all the factors of 60. **(2)**

4.2 What is the highest common factor (HCF) of 60 and 90? **(2)**

4.3 What is the lowest common multiple (LCM) of 60 and 90? **(2)**

4.4 Write 126 as a product of prime factors. **(3)**

5 Fractions, decimals and percentages — 10 marks

5.1 Calculate $\frac{3}{5}$ of 345. Show your working. **(2)**

5.2 Calculate 12% of R750. **(3)**

5.3 A shop buys an item for R3 000 and sells it for R3 900. **(3)**

a. What is the profit? _____

b. The shop gives a 10% discount on the selling price. How much is the discount?

_____

5.4 Calculate: $\frac{5}{6} - \frac{1}{4}$ **(2)**

6 Ratio and problem solving — 3 marks

6.1 Share 132 in the ratio 5 : 6. **(3)**

7 Patterns, functions and algebra

10 marks

7.1 Look at the pattern: 1 ; 2 ; 4 ; 7 ; 11 ; _____ ; _____ . Write the next TWO numbers and describe the rule. **(3)**

7.2 Which term of this pattern is the first one bigger than 50? Show your working. **(2)**

7.3 Look at the table. Write the rule in words and complete the table. **(3)**

Input	2	5	8	12
Output	9	21	33	

7.4 Write the missing number in the block. **(2)**

a. 5 × ☐ + 7 = 42 b. ☐ × 9 = 108

8 Space and Shape

15 marks

8.1 Look at shapes A, B, C and D. **(4)**



a. What is the name of shape A? _____

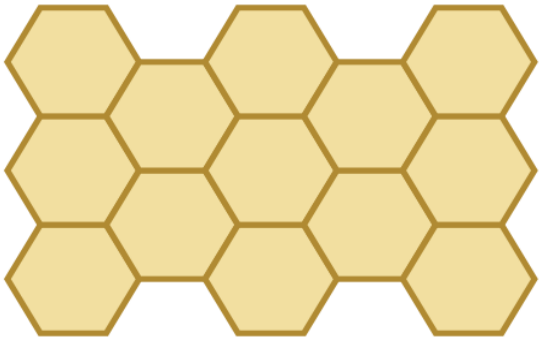
b. What is the name of shape B? _____

c. Write the letters of the TWO regular polygons: _____

8.2 Complete the table. **(4)**

Object	Faces	Edges	Vertices
Cube			
Triangular prism			

8.3 The picture shows a pattern that we find in nature. **(3)**



a. Name the 2D shape that is repeated in the pattern: _____

b. How many lines of symmetry does ONE of these shapes have? _____

c. Where in nature do we find this pattern? _____

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

_____

_____

8.5 Name the transformation and say what stays the same about the shape: a shape is turned around a point. **(2)**

_____

_____

9 Measurement

15 marks

9.1 Look at the kitchen scale. **(3)**



a. What mass does it show? Write it in kilograms as a decimal fraction. _____

b. Write the mass in grams. _____

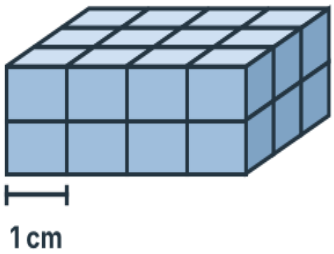
c. How many more grams are needed to make 2,5 kg? _____

9.2 A rectangular garden is 32 m by 15 m. **(4)**

a. Calculate the PERIMETER: _____

b. Calculate the AREA: _____

9.3 The rectangular prism is built from 1 cm cubes. **(3)**



a. How many cubes are in the bottom layer? _____

b. What is the volume of the prism? _____

9.4 Arrange from SMALLEST to LARGEST. Convert first. **(3)**

1,4 kg 1 250 g 1,08 kg 1 350 g

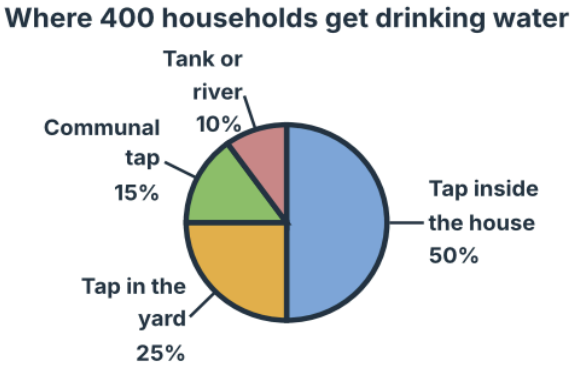
9.5 Convert. **(2)**

a. 3,6 ℓ = _____ mℓ b. 5,4 kg = _____ g

10 Data Handling

10 marks

10.1 The pie chart shows where 400 households in a town get their drinking water. **(5)**



a. Where do most households get their water? _____

b. What percentage of the households use a communal tap? _____

c. How many households have a tap in the yard? _____

d. How many households get their water from a tank or a river? _____

e. What common fraction of the households have a tap inside the house? _____

10.2 Arrange the data from smallest to largest, then find the MODE and the MEDIAN: **(3)**

15 ; 22 ; 11 ; 22 ; 19

10.3 A spinner with three colours was spun 30 times. The tally table shows the results. **(2)**



a. How many times did the spinner land on blue? _____

b. Which colour came up the fewest times? _____

Total **100 marks**



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