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PRACTICE EXAM

Practice test · Term 1–4
Version 1.8 · 22 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 7 in 274 008 163? **(1)**

(a) 70 000 000 (b) 7 000 000 (c) 700 000 000

1.2 Which one is a prime factor of 84? **(1)**

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

1.3 0,375 as a percentage is: **(1)**

(a) 3,75% (b) 37,5% (c) 0,375%

1.4 An angle that is bigger than a straight angle but smaller than a full turn is called a: **(1)**

(a) obtuse angle (b) right angle (c) reflex angle

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

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

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

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

2 Large numbers

7 marks

2.1 Count on in 2 500s. Write the next THREE numbers. **(2)**

148 500 — _____ — _____ — _____

2.2 Round off 4 587 213. **(3)**

a. nearest 5: _____ b. nearest 100: _____ c. nearest 1 000: _____

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

a. 4 587 213 _____ 1 968 457 b. 1 968 457 _____ 4 587 213

3 Operations

15 marks

3.1 Calculate 4 587 213 + 1 968 457. **(3)**

3.2 Calculate 4 587 213 − 1 968 457 and check by adding. **(3)**

3.3 Calculate 3 254 × 126. **(3)**

3.4 Calculate 8 736 ÷ 168. Show your working. **(3)**

168 | 8 7 3 6

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

a. 14 + 4 × 6 = _____

b. (8 + 7) × 4 = _____

c. 56 ÷ (3 + 5) = _____

4 Factors, multiples and prime factors

9 marks

4.1 Write all the factors of 84. **(2)**

4.2 What is the HCF of 84 and 126? **(2)**

4.3 What is the LCM of 84 and 126? **(2)**

4.4 Write 84 as a product of prime factors. **(3)**

5 Fractions, decimals and percentages

10 marks

5.1 Write 0,375 as a common fraction in its simplest form. **(2)**

5.2 Calculate 15% of R840. **(3)**

5.3 A shop buys an item for R1 400 and sells it for R1 750. **(3)**

a. What is the profit on one item? _____

b. The shop sells 6 of these items. What is the total profit? Show your working.

_____

5.4 Calculate and show your working: $3\frac{1}{2} - 1\frac{3}{4}$ **(2)**

6 Ratio and problem solving

3 marks

6.1 Share 96 in the ratio 3 : 5. **(3)**

7 Patterns, functions and algebra

10 marks

7.1 Look at the pattern: 7 ; 18 ; 29 ; 40 ; _____ ; _____ . Write the next two numbers and describe the rule. **(3)**

7.2 What is the 20th term of that pattern? Show your working. **(2)**

7.3 The rule is: multiply by 5 and add 4. Complete the table. **(3)**

Input	3	6	11	15
Output				

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

a. 7 × ☐ + 6 = 48 b. ☐ × 8 = 96

8 Space and Shape

15 marks

8.1 Write the kind of angle next to each description. **(4)**

Description	Kind of angle
smaller than a right angle	
exactly a quarter turn	
bigger than a right angle but smaller than a straight angle	
bigger than a straight angle but smaller than a full turn	

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

Object	Faces	Edges	Vertices
Cube			
Rectangular prism			

8.3 Answer the questions about a SQUARE PYRAMID. **(3)**

a. How many flat faces does it have? _____

b. How many edges does it have? _____

c. How many vertices (corners) does it have? _____

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

_____

_____

8.5 Name the transformation in which a shape is turned around a point, and state what stays the same about the shape. **(2)**

_____

_____

9 Measurement

15 marks

9.1 A workshop starts at 07:35 and ends at 11:20. How long does it last? **(3)**

_____

_____

_____

9.2 A rectangular garden is 28 m by 16 m. **(4)**

a. Calculate the PERIMETER: _____

b. Calculate the AREA: _____

9.3 A box is 6 cm long, 4 cm wide and 3 cm high. Calculate the VOLUME. **(3)**

_____

_____

_____

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

10,5 kg 10 000 g 10,12 kg 10,3 kg

9.5 Convert. **(2)**

a. 2,5 ℓ = _____ mℓ b. 3,75 kg = _____ g

10 Data Handling

10 marks

10.1 The table shows how many books five classes read. **(5)**

Class	6A	6B	6C	6D	6E
Books	24	31	18	27	22

a. How many books altogether? _____

b. The most by one class? _____

c. The fewest? _____

d. Which TWO classes together read 55 books? _____

e. What is the MEDIAN? _____

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

23 ; 17 ; 26 ; 19 ; 23 ; 15 ; 21

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

Total **100 marks**



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