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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 9 in 394 612 507? **(1)**

(a) 90 000 000 (b) 9 000 000 (c) 900 000 000

1.2 Which one is a prime factor of 120? **(1)**

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

1.3 0,75 as a percentage is: **(1)**

(a) 75% (b) 7,5% (c) 0,75%

1.4 345 678 rounded off to the nearest 5 is: **(1)**

(a) 345 675 (b) 345 680 (c) 345 670

1.5 How many metres are there in 1 kilometre? **(1)**

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

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

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

2 Large numbers

7 marks

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

175 000 — _____ — _____ — _____

2.2 Round off 5 271 438. **(3)**

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

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

a. 5 271 438 _____ 2 839 516 b. 2 839 516 _____ 5 271 438

3 Operations

15 marks

3.1 Calculate 5 271 438 + 2 839 516. **(3)**

3.2 Calculate 5 271 438 − 2 839 516 and check by adding. **(3)**

3.3 Calculate 4 132 × 118. **(3)**

3.4 Calculate 8 772 ÷ 204. Show your working. **(3)**

$$204 \overline{)\,8\,7\,7\,2}$$

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

a. 18 + 3 × 8 = _____

b. (7 + 8) × 5 = _____

c. 48 ÷ (2 + 6) = _____

4 Factors, multiples and prime factors

9 marks

4.1 Write all the factors of 96. **(2)**

4.2 What is the highest common factor (HCF) of 96 and 144? **(2)**

4.3 What is the lowest common multiple (LCM) of 96 and 144? **(2)**

4.4 Write 120 as a product of prime factors. **(3)**

5 Fractions, decimals and percentages — 10 marks

5.1 Write these fractions in order from the SMALLEST to the LARGEST: $\frac{3}{10}$; $\frac{27}{100}$; $\frac{31}{100}$ **(2)**

5.2 Calculate 25% of R480. **(3)**

5.3 A baker has a 5 kg bag of flour. He uses 1,75 kg for bread and 2,4 kg for cakes. **(3)**

a. How much flour does he use altogether? _____

b. How much flour is left? Give your answer in kilograms AND in grams. _____

5.4 Calculate: $\frac{3}{5} - \frac{1}{5}$ **(2)**

6 Ratio and problem solving — 3 marks

6.1 Share 130 in the ratio 4 : 9. **(3)**

7 Patterns, functions and algebra

10 marks

7.1 Look at the pattern: 5 ; 15 ; 45 ; 135 ; _____ ; _____ . Write the next TWO numbers and describe the rule. **(3)**

7.2 Is 3 645 a number in this pattern? Show how you know. **(2)**

7.3 The rule is: multiply by 4 and add 9. Complete the table. **(3)**

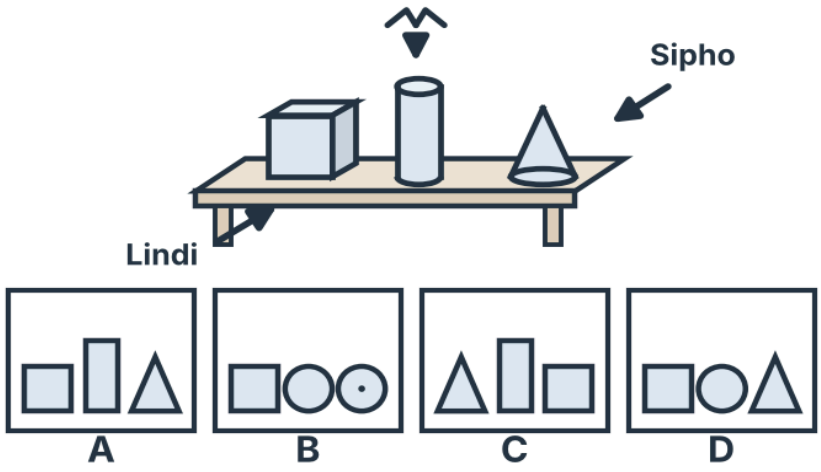
Input	3	6	11	15
Output				

7.4 Sipho buys 6 packets of pens and gets 15 extra pens free. Now he has 87 pens. Write a number sentence for this problem and solve it to find how many pens are in one packet. **(2)**

8 Space and Shape

15 marks

8.1 A cube, a cylinder and a cone stand in a row on a table. Lindi stands in FRONT of the table, Sipho stands BEHIND the table and a bird looks down from straight ABOVE. **(4)**



a. Which drawing shows what Lindi sees? _____

b. Which drawing shows what the bird sees? _____

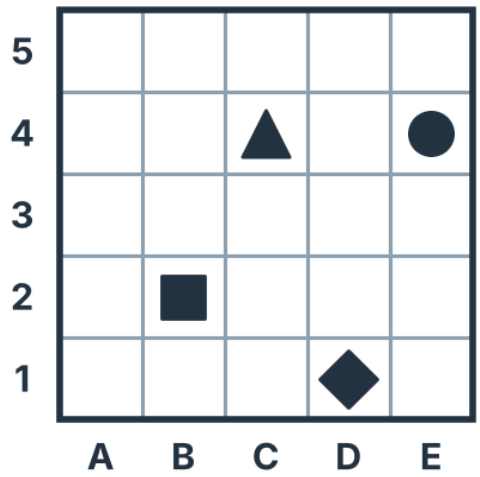
c. Which drawing shows what Sipho sees? _____

d. Which drawing can NOT be seen from any of these positions? _____

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

Object	Faces	Edges	Vertices
Triangular prism			
Cube			

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



a. Which symbol is in block C4? _____

b. Write the grid reference of the ■: _____

c. Describe how to move from the ■ to the ●. Use the words right, left, up and down and the number of blocks: _____

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

_____

_____

8.5 Name the transformation and say what stays the same about the shape: a shape is slid straight across without turning. **(2)**

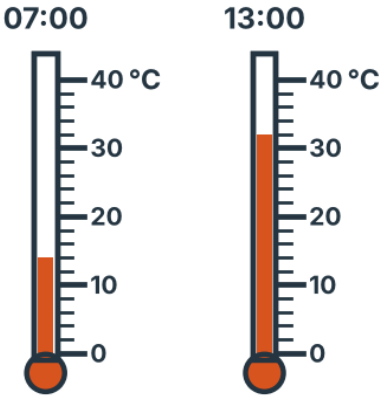
_____

_____

9 Measurement

15 marks

9.1 The thermometers show the temperature in Upington at 07:00 and at 13:00. **(3)**

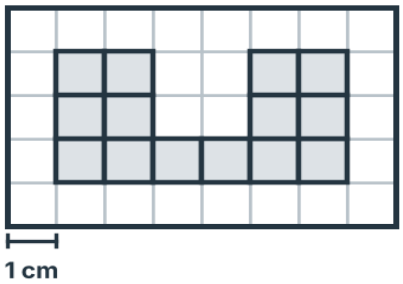


a. What was the temperature at 07:00? _____

b. What was the temperature at 13:00? _____

c. How many degrees warmer was it at 13:00? _____

9.2 The shape is drawn on a 1 cm grid. **(4)**



a. Find the AREA of the shape by counting squares: _____

b. Find the PERIMETER of the shape: _____

9.3 A box is 7 cm long, 3 cm wide and 4 cm high. Calculate the VOLUME. **(3)**

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

5,2 kg 5 050 g 4 900 g 5,15 kg

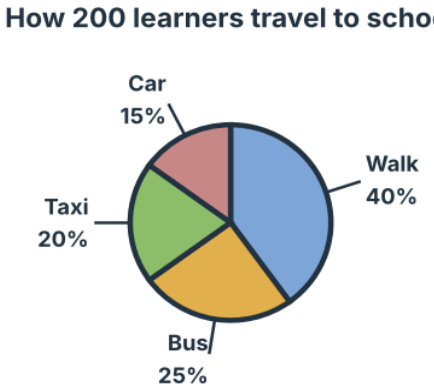
9.5 Convert. **(2)**

a. 3,45 m = _____ cm b. 1,5 kg = _____ g

10 Data Handling

10 marks

10.1 The pie chart shows how 200 learners travel to school. **(5)**



a. How do most of the learners travel to school? _____

b. What percentage of the learners travel by taxi? _____

c. How many learners walk? _____

d. How many learners come by car? _____

e. What common fraction of the learners come by bus? _____

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

23 ; 18 ; 27 ; 18 ; 31

10.3 Sipho tosses a coin 50 times. He gets heads 27 times. **(2)**

a. How many times does he get tails? _____

b. Sipho says the coin will now land on tails more often to "catch up". Is he right? Explain.

_____

Total **100 marks**



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