MeerkatSkool

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 2 in 5 280 394? **(1)**

(a) 200 000 (b) 20 000 (c) 2 000

1.2 Which one is a prime factor of 90? **(1)**

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

1.3 0,28 as a percentage is: **(1)**

(a) 2,8% (b) 0,28% (c) 28%

1.4 How many sides does an octagon have? **(1)**

(a) 6 (b) 7 (c) 8

1.5 How many millimetres are there in 1 centimetre? **(1)**

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

1.6 The value that occurs most often is called the: **(1)**

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

2 Large numbers

7 marks

2.1 Count on in 4 000s. Write the next THREE numbers. **(2)**

236 000 — _____ — _____ — _____

2.2 Round off 3 856 924. **(3)**

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

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

a. 3 856 924 _____ 1 547 283 b. 1 547 283 _____ 3 856 924

3 Operations

15 marks

3.1 Calculate 3 856 924 + 1 547 283. **(3)**

3.2 Calculate 3 856 924 − 1 547 283 and check by adding. **(3)**

3.3 Calculate 2 867 × 143. **(3)**

3.4 Calculate 9 315 ÷ 135. Show your working. **(3)**

135 | 9 3 1 5

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

a. 12 + 5 × 7 = _____

b. (9 + 6) × 3 = _____

c. 72 ÷ (4 + 5) = _____

4 Factors, multiples and prime factors

9 marks

4.1 Write all the factors of 72. **(2)**

4.2 What is the highest common factor (HCF) of 72 and 108? **(2)**

4.3 What is the lowest common multiple (LCM) of 72 and 108? **(2)**

4.4 Write 90 as a product of prime factors. **(3)**

5 Fractions, decimals and percentages — 10 marks

5.1 Complete: $\frac{9}{20}$ = _____ (decimal fraction) = _____ % **(2)**

5.2 Calculate 20% of R650. **(3)**

5.3 A shop buys an item for R2 200 and sells it for R2 750. **(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: $\frac{3}{4} - \frac{1}{4}$ **(2)**

6 Ratio and problem solving — 3 marks

6.1 Share 108 in the ratio 2 : 7. **(3)**

7 Patterns, functions and algebra

10 marks

7.1 Look at the pattern: 9 ; 17 ; 25 ; 33 ; _____ ; _____ . 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 6 and add 3. Complete the table. **(3)**

Input	3	6	11	15
Output				

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

a. 9 × ☐ + 4 = 58 b. ☐ × 6 = 72

8 Space and Shape

15 marks

8.1 Write the kind of angle (acute, right, obtuse, straight or reflex) that the hands of a clock make at each time. Use the smaller angle between the hands. **(4)**

Time	Kind of angle
3 o'clock	
6 o'clock	
1 o'clock	
5 o'clock	

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

Object	Faces	Edges	Vertices
Rectangular prism			
Triangular prism			

8.3 Triangle A has sides of 6 cm, 8 cm and 10 cm. Triangle B is a REDUCTION of triangle A: every side is half as long. **(3)**

a. Write the lengths of the sides of triangle B: _____

b. Are the angles of triangle B smaller than, bigger than or the same as the angles of triangle A? _____

c. Is triangle B the same shape as triangle A? _____

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

8.5 Name the transformation and say what stays the same about the shape: a shape is mirrored over a line. **(2)**

9 Measurement

15 marks

9.1 A workshop starts at 08:15 and ends at 12:05. How long does it last? **(3)**

9.2 A rectangular garden is 35 m by 12 m. **(4)**

a. Calculate the PERIMETER: _____

b. Calculate the AREA: _____

9.3 A box is 8 cm long, 5 cm wide and 2 cm high. Calculate the VOLUME. **(3)**

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

2,75 kg 2 500 g 2,9 kg 2 080 g

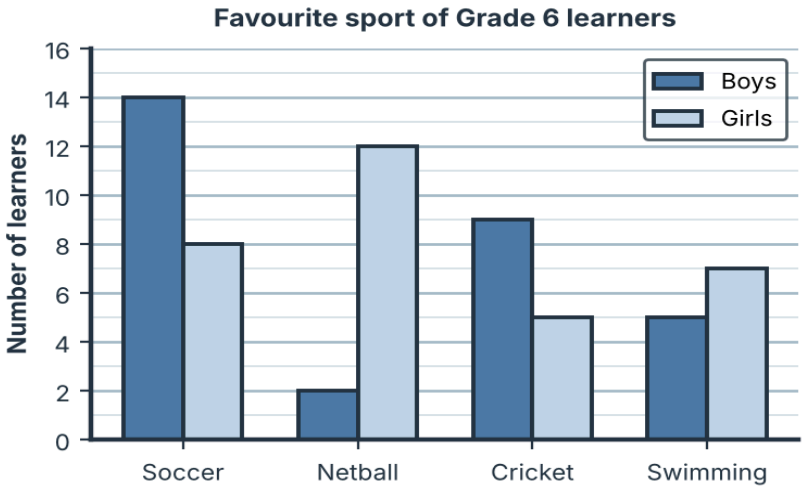
9.5 Convert. **(2)**

a. 1,8 ℓ = _____ mℓ b. 2,25 kg = _____ g

10 Data Handling

10 marks

10.1 The double bar graph shows the favourite sport of the boys and the girls in a Grade 6 class. **(5)**



a. How many boys chose soccer? _____

b. Which sport did the most girls choose? _____

c. For which TWO sports did more girls than boys vote? _____

d. How many learners were asked altogether? _____

e. Write ONE conclusion about the boys and the girls: _____

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

12 ; 17 ; 9 ; 17 ; 14

10.3 You roll an ordinary die once. **(2)**

a. List all the possible outcomes: _____

b. Is rolling a 6 more likely, less likely or equally likely as rolling a 1? _____

Total **100 marks**



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