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 8 in 2 874 963? **(1)**

(a) 800 000 (b) 80 000 (c) 8 000

**1.2** Which one is a prime factor of 108? **(1)**

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

**1.3** 0,55 as a percentage is: **(1)**

(a) 5,5% (b) 0,55% (c) 55%

**1.4** Which temperature is closest to the normal body temperature of a healthy person? **(1)**

(a) 27 °C (b) 37 °C (c) 47 °C

**1.5** Which number sentence shows that adding 0 does not change a number? **(1)**

(a) 47 + 0 = 47 (b) 47 × 0 = 0 (c) 47 − 47 = 0

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

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

## 2 Large numbers

7 marks

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

192 500 — _____ — _____ — _____

**2.2** Round off 6 148 329. **(3)**

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

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

a. 6 148 329 _____ 2 456 037 b. 2 456 037 _____ 6 148 329

## 3 Operations

15 marks

**3.1** Calculate 6 148 329 + 2 456 037. **(3)**

**3.2** Calculate 6 148 329 − 2 456 037 and check by adding. **(3)**

**3.3** Calculate 3 546 × 132. **(3)**

**3.4** A library has 4 950 books to pack into boxes. Each box holds 125 books. **(3)**

a. Calculate 4 950 ÷ 125.

$$125 \overline{)\,4\;9\;5\;0}$$

b. How many boxes are needed to pack ALL the books? _____ boxes

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

a. 15 + 4 × 7 = _____

b. (10 + 5) × 3 = _____

c. 81 ÷ (4 + 5) = _____

## 4 Factors, multiples and prime factors

9 marks

**4.1** Write all the factors of 108. **(2)**

**4.2** What is the highest common factor (HCF) of 108 and 162? **(2)**

**4.3** What is the lowest common multiple (LCM) of 108 and 162? **(2)**

**4.4** Write 108 as a product of prime factors. **(3)**

## 5 Fractions, decimals and percentages

10 marks

**5.1** Complete: $\frac{2}{5}$ = _____ (decimal fraction) = _____ % **(2)**

**5.2** Calculate 30% of R560. **(3)**

**5.3** A shop buys an item for R1 600 and sells it for R2 000. **(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: $\frac{1}{3} - \frac{1}{6}$ **(2)**

## 6 Ratio and problem solving

3 marks

**6.1** A 2 kg bag of rice costs R46. **(3)**

a. What is the price per kilogram? _____

b. What will 15 kg of the same rice cost? Show your working.

## 7 Patterns, functions and algebra

10 marks

**7.1** Look at the pattern: 8 ; 20 ; 32 ; 44 ; _____ ; _____ . 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 8 and add 5. Complete the table. **(3)**

| Input | 3 | 6 | 11 | 15 |
|---|---|---|---|---|
| Output | | | | |

**7.4** Lindi says that ☐ = 9 makes this number sentence true: 7 × ☐ − 5 = 58. **(2)**
Check her answer by substitution. Is she right?

## 8 Space and Shape

15 marks

**8.1** Answer the questions about a rectangle and a parallelogram. **(4)**

a. Write TWO properties that a rectangle and a parallelogram have in common: _____

b. Write ONE way in which a rectangle is different from a parallelogram: _____

c. What kinds of angles does a parallelogram that is NOT a rectangle have? _____

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

| Object | Faces | Edges | Vertices |
|---|---|---|---|
| Triangular prism | | | |
| Rectangular prism | | | |

**8.3** Answer the questions about a tetrahedron. **(3)**

a. How many faces does a tetrahedron have? _____

b. What shape are all the faces of a tetrahedron? _____

c. Write ONE difference between a tetrahedron and a square-based pyramid: _____

**8.4** Name TWO properties of a trapezium. **(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** Answer the questions about temperature. **(3)**

a. A digital thermometer in the classroom shows 24,6 °C. Round this off to the nearest whole degree. _____

b. At what temperature does pure water boil? _____

c. At what temperature does water freeze? _____

**9.2** All these rectangles have a perimeter of 20 cm. **(4)**

| Length | 9 cm | 8 cm | 7 cm | 6 cm | 5 cm |
|---|---|---|---|---|---|
| Breadth | 1 cm | 2 cm | 3 cm | 4 cm | 5 cm |
| Area | | | | | |

a. Complete the Area row in the table above. (Length × width)

b. Which rectangle has the biggest area? _____

c. Do rectangles with the same perimeter always have the same area? _____

**9.3** A box is 5 cm long, 5 cm wide and 4 cm high. Calculate the VOLUME. **(3)**

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

3,6 kg  3 450 g  3,25 kg  3 700 g

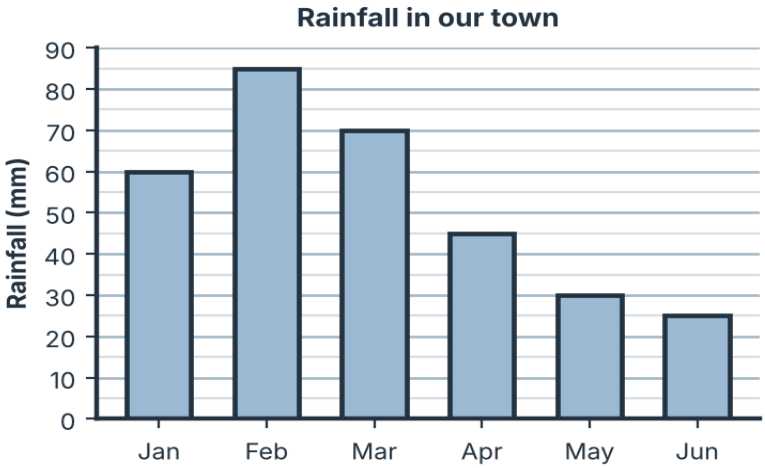
**9.5** Convert. **(2)**

a. 2,3 km = _____ m  b. 2,8 kg = _____ g

## 10 Data Handling

**10 marks**

**10.1** The bar graph shows the rainfall in a town from January to June. **(5)**




a. Which month had the most rain? _____

b. How much rain fell in April? _____

c. How much more rain fell in February than in June? _____

d. What was the total rainfall for the six months? _____

e. Do you predict that July will have more or less rain than March? Give a reason from the graph. _____

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

31 ; 24 ; 28 ; 24 ; 35

**10.3** Four groups each rolled a die 10 times and counted the sixes. **(2)**

| Group | A | B | C | D |
|---|---|---|---|---|
| Sixes | 2 | 1 | 3 | 2 |

a. How many sixes did the groups get altogether? _____

b. How many times was the die rolled altogether? _____

**Total** **100 marks**



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