

# SMARTWIZ

## GRADE 6 MATHEMATICS EXAM

**MARKS: 50**

MARKS	

**TIME: 1 hour 30 Minutes**

**SCHOOL** \_\_\_\_\_

**CLASS (e.g. 4A)** \_\_\_\_\_

**SURNAME** \_\_\_\_\_

**NAME** \_\_\_\_\_

### Instructions for Learners:

- >Read all instructions carefully before beginning the exam.
- >Write your name and student number clearly on the answer sheet or booklet.
- >Answer all questions unless otherwise indicated.
- >Show all workings/calculations where applicable.
- >Write clearly and legibly.
- >Use only blue or black ink. \* Do not use correction fluid or tape.
- >No electronic devices (such as calculators, cellphones, etc.) are allowed unless specifically permitted.
- >Raise your hand if you have a question.
- >Do not talk to other learners during the exam.
- >Any form of dishonesty will result in disqualification.

**This exam consists of 5 pages, including the cover page.**

**PART A: PLACE VALUE & OPERATIONS (15 MARKS)**

Write 84 307 in expanded form. (2)

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What is the place value of 4 in the number 84 307? (1)

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Add:  $23\,549 + 14\,782 =$  \_\_\_\_\_ (2)

Subtract:  $80\,000 - 36\,418 =$  \_\_\_\_\_ (2)

Multiply:  $146 \times 9 =$  \_\_\_\_\_ (2)

Divide:  $864 \div 8 =$  \_\_\_\_\_ (1)

Round off 84 307 to the nearest 10 000. (1)

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Estimate:  $29\,576 + 11\,428$  (round to nearest 1 000 first) (2)

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**PART B: DECIMALS & MONEY (10 MARKS)**

Write  $\frac{3}{10}$  as a decimal. (1)

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Arrange in ascending order: 0.7 ; 0.45 ; 0.9 ; 0.25 (2)

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R25.40 + R18.75 = \_\_\_\_\_ (2)

R50 - R36.20 = \_\_\_\_\_ (2)

Sipho has R10. He buys a chocolate for R3.45 and a juice for R4.30. How much change does he get? (3)

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**PART C: TIME & TEMPERATURE (10 MARKS)**

What is the time 2 hours after 07:15? (1)

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A bus trip starts at 11:30 and ends at 14:15. How long was the trip? (2)

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Convert 135 minutes to hours and minutes. (2)

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What is the normal human body temperature in °C? (1)

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The temperature was  $4^{\circ}\text{C}$  in the morning and rose by  $13^{\circ}\text{C}$  by noon. What is the new temperature? (2)

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Draw a clock and show 9:45 on it. (2)

**PART D: SHAPES & SPACE (15 MARKS)**

Name the 3D shape that has:

-6 faces

-12 edges

-8 vertices (1)

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How many lines of symmetry does a square have? (1)

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Draw a triangle with one right angle. Label it. (2)

Perimeter of a triangle with sides 6 cm, 4 cm, and 5 cm (2)

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Area of a rectangle: Length = 6 cm, Width = 3 cm (2)

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Identify the type of angle:  $130^\circ$  (1)

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What do we call a triangle where all sides are equal? (1)

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Match each shape to its name

Square



Rectangle



Circle



Triangle (5)



**TOTAL: 50 MARKS**

**PART A: PLACE VALUE & OPERATIONS (15 MARKS)**

$$80\,000 + 4\,000 + 300 + 0 + 7 \text{ (2)}$$

$$4\,000 \text{ (1)}$$

$$38\,331 \text{ (2)}$$

$$43\,582 \text{ (2)}$$

$$1\,314 \text{ (2)}$$

$$108 \text{ (1)}$$

$$80\,000 \text{ (1)}$$

$$30\,000 + 11\,000 = 41\,000 \text{ (2)}$$

**PART B: DECIMALS & MONEY (10 MARKS)**

0.3 (1)

0.25 ; 0.45 ; 0.7 ; 0.9 (2)

R44.15 (2)

R13.80 (2)

$R10 - (R3.45 + R4.30) = R10 - R7.75 = R2.25$  (3)

**PART C: TIME & TEMPERATURE (10 MARKS)**

09:15 (1)

2 hours 45 minutes (2)

2 hours 15 minutes (2)

37°C (1)

17°C (2)

Hour hand between 9 and 10, minute hand on 9 (2)

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**PART D: SHAPES & SPACE (15 MARKS)**

Cube (1)

4 (1)

Right-angled triangle drawn and labelled (2)



$$6 + 4 + 5 = 15 \text{ cm (2)}$$

$$\text{Area} = 6 \times 3 = 18 \text{ cm}^2 \text{ (2)}$$

Obtuse angle (1)

Equilateral triangle (1)

Matching correctly:

Square → Square

Rectangle → Rectangle

Circle → Circle

Triangle → Triangle (5)

**TOTAL: 50 MARKS**

