SMARTWIZ

GRADE 5 MATHEMATICS EXAM

MARKS: 50

MARKS	

TIME: 1 hour

SCHOOL_____

CLASS (e.g. 4A) _____

SURNAME_____

NAME_____

Instructions for Students:

> Read all instructions carefully before beginning the exam.

> Write your name and student ID clearly on the answer sheet/booklet.

> Answer all questions unless otherwise stated.

> Show all your work/calculations where applicable.

> Write clearly and legibly.

> Use blue or black ink only. * Do not use correction fluid/tape.

> No electronic devices (calculators, phones, etc.) are allowed unless explicitly permitted.

> Raise your hand if you have any questions.

> Do not talk to other students during the exam.

> Any form of cheating will result in disqualification.

This test consists of 7 pages, excluding the cover page.

SECTION A: Multiple Choice Questions (10 x 2 = 20 marks)

Choose the correct answer and write only the letter.

What is the value of 4×(6+3)?

A. 36

B. 27

C. 45

D. 54

Which number is a multiple of 9?

A. 45

B. 44

C. 43

D. 42

What is the place value of 7 in 4,782?

A. Tens

B. Hundreds

C. Thousands

D. Units

Which of the following is the smallest fraction?

A. 3/4

B. 2/3

C. 1/2

D. 5/6

What is the perimeter of a rectangle with length 10 cm and width 5 cm?

A. 25 cm

B. 30 cm

C. 20 cm

D. 15 cm

How many millilitres are there in 2.5 litres?

A. 250 ml

B. 2500 ml

C. 25 ml

D. 2050 ml

What is ⅖ of 20?

A. 4

B. 5

C. 8

D. 10

Which shape has no lines of symmetry?

A. Circle

B. Rectangle

C. Scalene triangle

D. Square

The mode of the data set: 3, 4, 4, 5, 6, 4, 7 is:

A. 4

B. 5

C. 6

D. 7

Which is the correct decimal for three tenths?

A. 0.03

B. 0.3

C. 3.0

D. 0.003

SECTION B: Short Answer (5 x 4 = 20 marks)

Round 4,783 to the nearest hundred.

_____

Divide:765÷5

_____

Convert 3.5 kg to grams.

_____

Write a fraction equivalent to 3/6

_____

Find the area of a square with side 12 cm.

_____

SECTION C: Word Problems (5 x 6 = 30 marks)

Sipho bought 3 packets of rice. Each packet weighs 2.5 kg. What is the total weight of the rice?

_____

A bus travels 75 km in one hour. How far will it travel in 4 hours and 30 minutes?

_____

A fruit vendor sold 123 apples on Monday, 98 on Tuesday, and 135 on Wednesday. How many apples did he sell in total?

_____

A water tank can hold 200 litres of water. If it is currently 65% full, how many litres of water are in the tank?

_____

A baker divides 3 whole cakes equally among 5 children. How much cake does each child get?

_____

SECTION D: Geometry and Measurement (3 x 5 = 15 marks)

Draw and label an isosceles triangle. (2 marks for drawing, 3 marks for correct labeling of equal sides and angles)
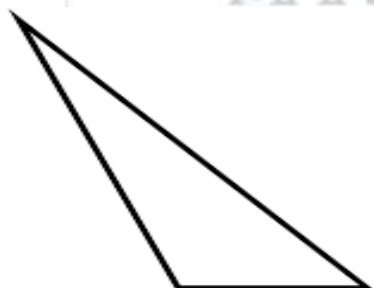
Measure and write the angle types:

a) Right angle _____

b) Acute angle_____

c) Obtuse angle_____

A classroom has a floor that is 6 m long and 4 m wide.
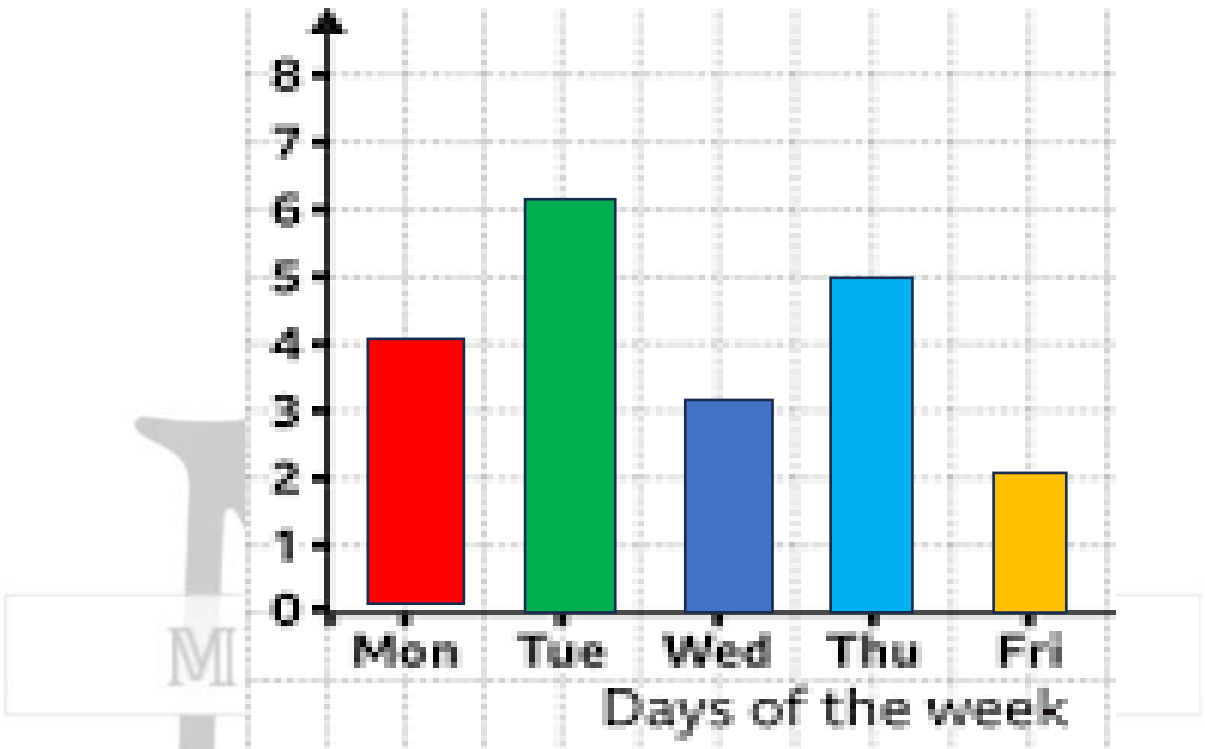
a) What is the area of the floor?

_____

b) What is the perimeter?

_____

SECTION E: Data Handling (3 x 5 = 15 marks)

The bar graph below shows the number of books read by learners in one week.

Answer the questions:

a) On which day were the most books read?

_____

b) How many books were read in total?

_____

Draw a pictogram showing the number of pets in 4 homes:

Home A: 2 pets

Home B: 4 pets

Home C: 3 pets

Home D: 5 pets

(Use 🐾 to represent one pet)

The temperature at noon for five days was: 28°C, 30°C, 27°C, 29°C, 31°C.

Find the:

a) Highest temperature _____

b) Average temperature_____

TOTAL : 50

MEMO

SECTION A: Multiple Choice (10 x 2 = 20 marks)

A. 36

A. 45

B. Hundreds

C. 1/2

B. 30 cm

B. 2500 ml

D. 10

C. Scalene triangle

A. 4

B. 0.3

SECTION B: Short Answer (5 x 4 = 20 marks)

4,800

153

3,500 grams

1/2 or 6/12, etc.

144 cm² (Area = side × side = 12 × 12)

SECTION C: Word Problems (5 x 6 = 30 marks)

2.5 kg × 3 = 7.5 kg

✓ 2 marks for multiplication

✓ 2 marks for correct units

✓ 2 marks for correct final answer

75 km × 4.5 = 337.5 km

✓ 2 marks for correct time conversion

✓ 2 marks for correct multiplication

✓ 2 marks for correct answer

123 + 98 + 135 = 356 apples

✓ 2 marks for correct addition

✓ 2 marks for showing steps

✓ 2 marks for correct answer

65% of 200 = 0.65 × 200 = 130 litres

✓ 2 marks for percentage conversion

✓ 2 marks for multiplication

✓ 2 marks for correct answer

3 ÷ 5 = 3/5 or 0.6

✓ 2 marks for division

✓ 2 marks for correct fraction

✓ 2 marks for correct decimal (optional)

SECTION D: Geometry & Measurement (3 x 5 = 15 marks)

✓ 2 marks: Isosceles triangle drawn correctly

✓ 3 marks: Equal sides and equal angles labeled

a) Right angle = 90°

b) Acute angle = Less than 90° (e.g., 45°)

c) Obtuse angle = More than 90° and less than 180° (e.g., 120°)

✓ 1 mark each for identifying, 1 for examples

a) Area = 6 m × 4 m = 24 m²

b) Perimeter = 2(6 + 4) = 20 m

✓ 2 marks for area

✓ 3 marks for perimeter with steps

SECTION E: Data Handling (3 x 5 = 15 marks)

a) Tuesday

b) 4 + 6 + 3 + 5 + 2 = 20 books

✓ 2 marks for each answer

✓ 1 mark for working

Pictogram (Each 🐾 = 1 pet):

A: 🐾 🐾

B: 🐾 🐾 🐾 🐾

C: 🐾 🐾 🐾

D: 🐾 🐾 🐾 🐾 🐾

✓ 5 marks for correct drawing and key

a) 31°C

b) Average:

(28 + 30 + 27 + 29 + 31) ÷ 5 = 29°C

✓ 2 marks for addition

✓ 2 marks for division

✓ 1 mark for correct answer

<u>TOTAL : 50</u>