# **SMARTWIZ**

#### **GRADE 6 MATHEMATICS EXAM**

| MARKS: 40   | 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.   |       |   |  |  |

This exam consists of 7 pages, including the cover page.

>Any form of dishonesty will result in disqualification.

## SECTION A: WHOLE NUMBERS (10 MARKS)

| Write the number 42 508 in words. (1)                      |
|--|
| Round off 42 508 to the nearest 1 000. (1)                 |
| What is the value of the digit 4 in the number 42 508? (1) |
| Add: 25 309 + 14 981 (2)                                   |
| Subtract: 50 000 - 23 456 (2)                              |
| Multiply: 206 × 7 (2)                                      |
| Divide: 525 ÷ 5 (1)  |
|  |

## **SECTION B: FRACTIONS (8 MARKS)**

| Write ½ as a decimal. (1)         |
|-----------------------------------|
| Simplify: 6/9 (1)                 |
| Add: 1/4 + 2/4 (1)                |
| Subtract: 5/6 - 1/6 (1)           |
| Multiply: 2/5 × 3 (2)             |
| Divide: 3/4 ÷ 2 (2)               |
| SECTION C: MEASUREMENT (10 MARKS) |
| Convert 1.5 km to metres. (1)     |

| How many grams in 3.2 kg? (1)  |
|--|
| A class starts at 10:15 and ends at 11:00. How long is the lesson? (1) |
| Perimeter of rectangle: Length = 8 cm, Breadth = 4 cm (2)              |
| Area of rectangle: Length = 5 m, Breadth = 3 m (2)                     |
| How many ml in 2.5 litres? (1)   |
| Convert 180 minutes to hours. (2)                                      |

### **SECTION D: DATA HANDLING (12 MARKS)**

Use the table below showing the number of books read by learners:

| Learner | Books Read |
|---------|------------|
| Thabo   | 5          |
| Amina   | 7          |
| Busi    | 3          |
| James   | 6          |

| who read the most books? (1)                               |
|--|
| How many books were read in total? (2)                     |
| What is the difference between the highest and lowest? (2) |
| What is the average number of books read? (2)              |
|  |

Represent the data in a pictograph using = 1 book (draw) (5)

**TOTAL: 40 MARKS** 

#### **SECTION A: WHOLE NUMBERS (10 MARKS)**

Forty-two thousand five hundred and eight (1)

43 000 (1)

40 000 (1)

25 309 + 14 981 = 40 290 (2)

50 000 - 23 456 = 26 544 (2)

 $206 \times 7 = 1442(2)$ 

 $525 \div 5 = 105 (1)$ 

## MYST PATHWORKS

### **SECTION B: FRACTIONS (8 MARKS)**

0.5(1)

2/3 (1)

3/4 (1)

4/6 or 2/3 (1)

6/5 or 1 1/5 (2)

3/8 (2)

### **SECTION C: MEASUREMENT (10 MARKS)**

1 500 m (1)

3 200 g (1)

45 minutes (1)

Perimeter = 2(8 + 4) = 24 cm (2)

Area =  $5 \times 3 = 15 \text{ m}^2$  (2)

2 500 ml (1)

3 hours (2)

## MYST PATHWORKS

### **SECTION D: DATA HANDLING (12 MARKS)**

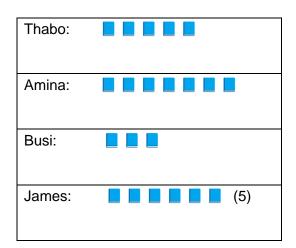
Amina (1)

$$5 + 7 + 3 + 6 = 21$$
 books (2)

$$7 - 3 = 4 \text{ books } (2)$$

$$21 \div 4 = 5.25(2)$$

Pictograph (Each = 1 book):



**TOTAL: 40 MARKS** 

MYST PATHWORKS