

# SMARTWIZ

## GRADE 4 MATHEMATICS EXAM

**MARKS: 75**

| 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 8 pages, excluding the cover page.**

**Section A: Number Sense and Place Value [15 Marks]**

1. Write the number name and expanded form of 7 253. (2 marks)

Number name: \_\_\_\_\_

**Answer : Seven thousand two hundred and fifty-three**

Expanded form: \_\_\_\_\_

**Answer : 7 000 + 200 + 50 + 3**

2. Write the value of the underlined digit: 6345 (1 mark)

**Answer : 300**

\_\_\_\_\_

3. Arrange these numbers in ascending order: 4 892, 3 785, 6 012, 2 956. (2 marks)

**Answer : 2 956; 3 785; 4 892; 6 012**

\_\_\_\_\_

4. Round off 3 468 to the nearest: (3 marks)

a) 10 \_\_\_\_\_

**Answer : 3470**

b) 100 \_\_\_\_\_

**Answer : 3500**

c) 1 000 \_\_\_\_\_

**Answer : 3000**

4. What is the place value of 8 in 8 431? (1 mark)

**Answer : 8000**

\_\_\_\_\_

6. Write the next three numbers in the pattern:

4000, 3900, 3800, \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ (3 marks)

**Answer : 3700, 3600, 3500**

7. Write the largest and smallest number that can be formed using these digits:

4, 0, 6, 2 (3 marks) \_\_\_\_\_

**Answer : Largest: 6 420 and Smallest: 2 046**

**Section B: Addition and Subtraction [10 Marks]**

1. Add the following: (2 marks)

a)  $4\,678 + 2\,395 =$  \_\_\_\_\_

**Answer : 7073**

b)  $8\,009 + 1\,876 =$  \_\_\_\_\_

**Answer : 9885**

2. Subtract the following: (2 marks)

a)  $5\,024 - 1\,278 =$  \_\_\_\_\_

**Answer : 3 746**

b)  $9\,000 - 3\,468 =$  \_\_\_\_\_

**Answer : 5 532**

3. A shop had 8 500 apples. 3 275 apples were sold. How many apples are left? (2 marks)

**Answer : Apples left:  $8\,500 - 3\,275 = 5\,225$**

4. Thabo has 6 792 marbles. His friend gives him 1 205 more. How many marbles does he have in total? (2 marks)

**Answer : Marbles:  $6\,792 + 1\,205 = 7\,997$**

5. Estimate:  $3\,245 + 2\,889$  to the nearest 1 000. (2 marks)

**Answer :  $3\,000 + 3\,000 = 6\,000$**

### Section C: Multiplication and Division [10 Marks]

1. Multiply: (2 marks)

a)  $23 \times 4 =$  \_\_\_\_\_

**Answer : 92**

b)  $12 \times 5 =$  \_\_\_\_\_

**Answer : 60**

2. Divide: (2 marks)

a)  $56 \div 7 =$  \_\_\_\_\_

**Answer : 8**

b)  $144 \div 12 =$  \_\_\_\_\_

**Answer : 12**

3. A pencil costs R6. How much will 8 pencils cost? (2 marks)

**Answer : 8 pencils  $\times$  R6 = R48**

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4. There are 36 apples packed in 6 baskets. How many apples are in each basket? (2 marks)

**Answer : 36 apples  $\div$  6 baskets = 6 apples**

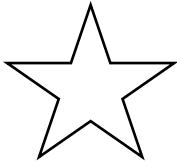
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5. Complete the multiplication table: (2 marks)

| $\times$ | 3                  | 4                  | 5                  |
|----------|--------------------|--------------------|--------------------|
| 2        | <b>Answer : 6</b>  | <b>Answer : 8</b>  | <b>Answer : 10</b> |
| 6        | <b>Answer : 18</b> | <b>Answer : 24</b> | <b>Answer : 30</b> |

### **Section D: Fractions [10 Marks]**

1. Shade  $\frac{1}{2}$  of the shape below: (1 mark)



2. Write the fraction: 3 shaded parts out of 5 (1 mark)

**Answer :  $\frac{3}{4}$**

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3. Which fraction is bigger:  $\frac{1}{2}$  or  $\frac{3}{4}$ ? (1 mark)

**Answer :  $\frac{3}{4}$**

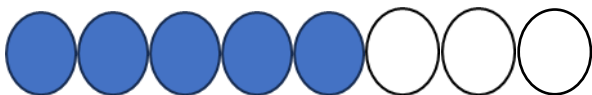
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4. Arrange in ascending order:  $\frac{1}{3}$ ,  $\frac{1}{2}$ ,  $\frac{1}{4}$  (2 marks)

**Answer :  $\frac{1}{4}$ ,  $\frac{1}{3}$ ,  $\frac{1}{2}$**

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5. What fraction of the set is shaded? (1 mark)



6. Colour  $\frac{2}{3}$  of 6 stars. (1 mark)



7. What is the numerator and denominator in  $\frac{4}{7}$ ? (1 mark)

**Answer : Numerator = 4, Denominator = 7**

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8. Add:  $\frac{1}{3} + \frac{1}{3} = ?$  (1 mark)

**Answer :  $\frac{2}{3}$**

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9. Subtract:  $\frac{3}{4} - \frac{1}{4} = ?$  (1 mark)

**Answer :  $\frac{1}{2}$**

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**Section E: Measurement [10 Marks]**

1. Convert: (2 marks)

a) 3 m = \_\_\_\_\_ cm

**Answer : 300cm**

b) 5 kg = \_\_\_\_\_ g

**Answer : 500g**

2. Which is heavier: 2 kg or 2 000 g? (1 mark)

**Answer : Its equal**

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3. Measure the length of this line in cm: \_\_\_\_\_ (1 mark)



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4. A bottle holds 1.5 litres of juice. How many millilitres is that? (1 mark)

**Answer : 1.5 L = 1 500 ml**

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5. Tick the correct estimate: (2 marks)

a) Mass of an apple: ☐ 2 kg ☐ 200 g

**Answer : 200g**

b) Height of a chair: ☐ 80 cm ☐ 8 m

**Answer : 80 cm**

6. If a string is 150 cm long, how many metres is that? (1 mark)

**Answer : 150 cm = 1.5 metres**

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7. How many millilitres are in 3 litres? (1 mark)

**Answer : 3 litres = ☒ 3 000 ml**

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### **Section F: Geometry [10 Marks]**

1. Name these shapes: (3 marks)



**Answer : Triangle , Square , Circle**

2. How many sides does a pentagon have? (1 mark)

**Answer : 5**

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3. Draw a line of symmetry on the square. (1 mark)



4. Which shape has 4 equal sides and 4 right angles? (1 mark)

**Answer : Square**

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5. Tick the 2D shapes: (2 marks)

a) Cube

b) Rectangle

c) Triangle

d) Sphere

**Answer : Rectangle and Triangle**

6. Identify the shape with no straight sides. (1 mark)

**Answer : Circle**

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7. Name a shape that has more than 4 sides. (1 mark)















**Answer : Pentagon**

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**Section G: Data Handling [10 Marks]**

1. Use the pictograph to answer: (5 marks)

Each  = 2 apples

| Day | Apples Sold  |
|-----|--|
| Mon |       |
| Tue |     |
| Wed |      |
| Thu |    |

a) How many apples were sold on Monday? \_\_\_\_\_

**Answer : 8 Apples**

b) Which day had the most apples sold? \_\_\_\_\_

**Answer : Wednesday**

c) How many more apples were sold on Wednesday than Tuesday? \_\_\_\_\_

**Answer :  $10 - 6 = 4$  Apples**

d) How many apples were sold in total? \_\_\_\_\_

**Answer : Total:  $8 + 6 + 10 + 4 = 28$  apples**

e) On which day were the fewest apples sold? \_\_\_\_\_

**Answer : Thursday**



2. Complete the tally chart for these numbers: (3 marks)

| Number | Tally | Frequency |
|--------|-------|-----------|
| 2      |       |           |
| 3      |       |           |
| 4      |       |           |
| 5      |       |           |

3. What is a bar graph used for? (1 mark)

**Answer : To show and compare data visually using bars**

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4. How many more people voted for apples than oranges if 12 voted apples and 7 voted oranges? (1 mark)

**Answer : Difference in votes:  $12 - 7 = 5$  more people**

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**TOTAL : 75**