



**Subject:** Grade 7 Mathematics  
**Topic:** Mathematics: Term 2 - Exam 1  
**Total:** 98 Marks

**Name:** \_\_\_\_\_

**Date:** \_\_\_\_\_

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**Question 1: True/False**

2 marks

The year 1900 was a leap year.

**TRUE**

**FALSE**

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**Question 2: True/False**

1 mark

The diagonals of a rhombus are perpendicular to each other.

**TRUE**

**FALSE**

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**Question 3: Please Fill In The Blanks**

4 marks

A rectangle with a length of 8cm has an area of  $56\text{cm}^2$ .

The breadth of the rectangle will be (1) and the perimeter of the rectangle will be (2)

Possible Answers: 7cm | 48cm | 15cm | 30cm | 28cm | 22cm

**1**

**2**

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**Question 4: Multiple Choice**

1 mark

The ... of  $35^\circ$  is  $145^\circ$ .

**A** complement

**B** supplement

**C**  $90^\circ$

**D**  $180^\circ$

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**Question 5: Text Input**

1 mark

An improper fraction is one in which the numerator is ... than the denominator.

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**Question 6: Multiple Choice**

2 marks

-6; 0; -7; 4; +7; -11

What is the correct descending order for this list of integers?

- |          |                       |
|----------|-----------------------|
| <b>A</b> | 0; 4; -6; +7; -7; -11 |
| <b>B</b> | -6; -7; -11; 0; 4; +7 |
| <b>C</b> | -11; -7; -6; 0; 4; +7 |
| <b>D</b> | +7; 4; 0; -6; -7; -11 |

**Question 7: Please Fill In The Blanks**

6 marks

Give the missing term for each of the following sequences:

5; 7; 9; 11; (1) ; ...

-2; -4; -6; (2) ; -1; ...

106; 102; (3) ; 94; ...

Possible Answers: 13 | 98 | 12 | -8 | 100 | -9 | 15 | 8

|          |  |
|----------|--|
| <b>1</b> |  |
| <b>3</b> |  |

|          |  |
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| <b>2</b> |  |
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**Question 8: Please Fill In The Blanks**

4 marks

$$1,345\text{km} + 6\,789\text{m} + 10\,123\text{mm} = (1) \text{ m}$$

$$2,3\text{km} + 34\,400\text{m} + 555\,000\text{mm} = (2) \text{ km}$$

Possible Answers: 8 144,123 | 8 235,23 | 42,25 | 37,255 | 8,144 123 | 0,037 255

|          |  |
|----------|--|
| <b>1</b> |  |
|----------|--|

|          |  |
|----------|--|
| <b>2</b> |  |
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**Question 9: Text Input**

2 marks

The decimal number ... is equal to the common fraction  $\frac{11}{20}$ .

[Give the decimal number only.]

|  |
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|  |
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**Question 10: Text Input**

4 marks

There are 480 sweets in a jar and  $\frac{7}{12}$  of them are sourworms.If  $\frac{3}{5}$  of the rest are fruit chews, there will be ... fruit chews.

[Give the number only]

|  |
|--|
|  |
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**Question 11: Multiple Choice**

3 marks

The prime factors of 81 are ...

- |          |                                |
|----------|--------------------------------|
| <b>A</b> | $3 \times 3 \times 3 \times 3$ |
| <b>B</b> | $27 \times 3$                  |
| <b>C</b> | $9 \times 3 \times 3$          |
| <b>D</b> | $81 \times 1$                  |

**Question 12: Text Input**

3 marks

$0,367\text{m}^2 = \dots \text{mm}^2$

[Give only the number]

**Question 13: Please Fill In The Blanks**

4 marks

Complete the following sequence:

61; 63; 65; (1) ; 69; 71; (2); ...

Possible Answers: 67 | 73 | 66 | 72 | 68 | 75

|          |                      |
|----------|----------------------|
| <b>1</b> | <input type="text"/> |
|----------|----------------------|

|          |                      |
|----------|----------------------|
| <b>2</b> | <input type="text"/> |
|----------|----------------------|

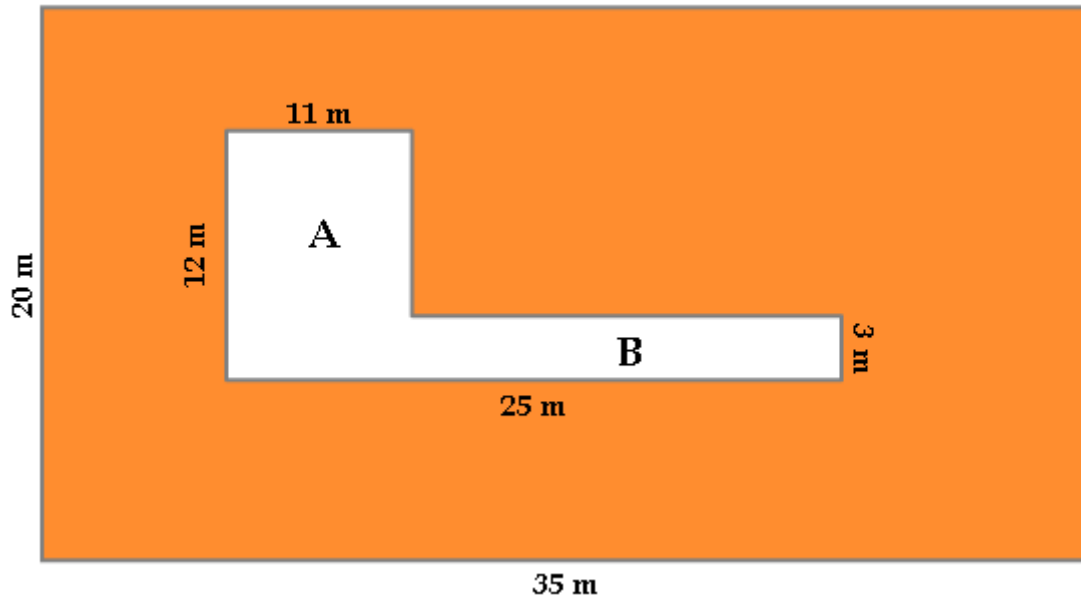
**Question 14: Multiple Choice**

4 marks

$3,168 + 4,26 \times (3,24 \div 2,4) = \dots$

- |          |           |
|----------|-----------|
| <b>A</b> | 8,919     |
| <b>B</b> | 10,027 8  |
| <b>C</b> | 100,027 8 |
| <b>D</b> | 22,958    |

**This image refers to question: 15**



**Question 15: Text Input**

3 marks

In the given figure, the area of the orange region is ... m<sup>2</sup>.

[Give only the number]

**Question 16: Text Input**

1 mark

Fill in the next term of the following linear number series:

-4; -2; 0; ...

[Give the number only]

**Question 17: Multiple Choice**

4 marks

$$3\frac{1}{4} - 1\frac{2}{3} + 2\frac{5}{12} = \dots$$

- |          |                 |
|----------|-----------------|
| <b>A</b> | 4               |
| <b>B</b> | $3\frac{5}{12}$ |
| <b>C</b> | $4\frac{5}{12}$ |
| <b>D</b> | $3\frac{3}{4}$  |
- 

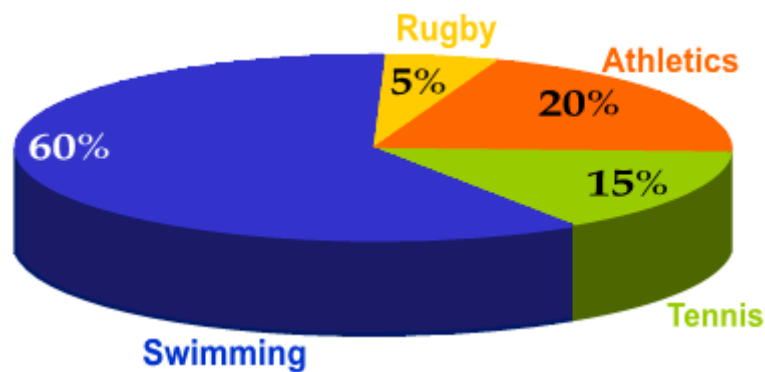
**Question 18: Multiple Choice**

4 marks

The equivalent fraction of 125% is ...

- |          |                 |
|----------|-----------------|
| <b>A</b> | $1\frac{1}{4}$  |
| <b>B</b> | $\frac{1}{4}$   |
| <b>C</b> | $1\frac{1}{5}$  |
| <b>D</b> | $1\frac{1}{25}$ |
- 

**This image refers to question: 19**

**Question 19: Text Input**

3 marks

Use the given pie graph to calculate the following:

5% of a class of 40 children play rugby, therefore ... children play rugby.

[Give the number only]

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**Question 20: Please Fill In The Blanks**

6 marks

The number  $\sqrt{2}$  is (1) as it is a non-recurring, infinite decimal fraction.

The number  $\frac{2}{7}$  is (2) as it is a recurring,

infinite decimal fraction with a recurring pattern of (3) digits.

Possible Answers: irrational | rational | integer | 6 | 3 | 7 | 4 | 2

|          |  |
|----------|--|
| <b>1</b> |  |
| <b>3</b> |  |

|          |  |
|----------|--|
| <b>2</b> |  |
|----------|--|

**Question 21: Multiple Choice**

4 marks

Sugar can be bought in 5kg, 2kg and 1,5kg packets.

They cost R10,60, R4,15 and R2,80 respectively.

Which is the most cost effective packet to buy?

You may use a calculator!

- |          |                             |
|----------|-----------------------------|
| <b>A</b> | 2kg packet                  |
| <b>B</b> | 1,5kg packet                |
| <b>C</b> | 1kg packet                  |
| <b>D</b> | All are equally economical. |

**Question 22: Text Input**

3 marks

The number that is 10 000 times larger than 0,062 3 is ...

[Give the decimal number only]

|  |
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**Question 23: Please Fill In The Blanks**

6 marks

Fill in the correct operational sign to make each of the following number sentences true:

54 (1)  $6 = 60$

54 (2)  $6 = 48$

54 (3)  $6 = 324$

Possible Answers: + | - | × | = | &lt; | &gt;

|          |  |
|----------|--|
| <b>1</b> |  |
| <b>3</b> |  |

|          |  |
|----------|--|
| <b>2</b> |  |
|----------|--|

**Question 24: Multiple Choice**

4 marks

John has R165 and he spends  $\frac{1}{3}$  of that amount on a T-shirt and  $\frac{4}{5}$  of what he has left on a cap.

How much money will he have left?

- |          |     |
|----------|-----|
| <b>A</b> | R22 |
| <b>B</b> | R88 |
| <b>C</b> | R77 |
| <b>D</b> | R45 |

**Question 25: True/False**

2 marks

If the areas of a rectangle and square are the same, then their perimeters will also be the same.

|             |
|-------------|
| <b>TRUE</b> |
|-------------|

|              |
|--------------|
| <b>FALSE</b> |
|--------------|

**Question 26: True/False**

1 mark

The number 48 has six factors.

|             |
|-------------|
| <b>TRUE</b> |
|-------------|

|              |
|--------------|
| <b>FALSE</b> |
|--------------|



**Question 27: Please Fill In The Blanks**

6 marks

If prices remain unaltered from one year to the next, the inflation rate is (1) .

If the price of an article increases from R50 one year to R100 the next year, the percentage increase is (2) .

If the price of an article increases from R50 one year to R150 the next year, the percentage increase is (3) .

Possible Answers: 0% | 50% | 100% | 200% | 400% | 300%

|          |  |
|----------|--|
| <b>1</b> |  |
| <b>3</b> |  |

|          |  |
|----------|--|
| <b>2</b> |  |
|----------|--|

**Question 28: True/False**

2 marks

There are 40 children in a class.

70% of them love spaghetti.

In this class, the number of children who do NOT love spaghetti is 12.

|             |
|-------------|
| <b>TRUE</b> |
|-------------|

|              |
|--------------|
| <b>FALSE</b> |
|--------------|

**Question 29: Please Fill In The Blanks**

6 marks

Meat with a temperature of 11°C is placed into a freezer.

It starts freezing at 0°C, is frozen at -4°C and gets freezer burnt at -13°C.

To start freezing, the temperature must decrease by (1) from 11°C.

To be frozen, the temperature must decrease by (2) from 11°C.

To get freezer burnt, the temperature must decrease by (3) from 11°C.

Possible Answers: 0°C | 11°C | 15°C | 24°C | -11°C | -15°C | 2°C | -17°C

|          |  |
|----------|--|
| <b>1</b> |  |
| <b>3</b> |  |

|          |  |
|----------|--|
| <b>2</b> |  |
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**Question 30: True/False**

2 marks

$\frac{3}{8}$  can be written as 37,5%

**TRUE**

**FALSE**

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**Total: 98 Marks**