



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

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

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

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**Question 1: Text Input**

1 mark

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

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**Question 2: 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>	
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**Question 3: True/False**

1 mark

The diagonals of a rhombus are perpendicular to each other.

<b>TRUE</b>
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<b>FALSE</b>
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**Question 4: Text Input**

1 mark

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

-4; -2; 0; ...

[Give the number only]

**Question 5: 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 6: 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 7: True/False**

2 marks

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

**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>	
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<b>2</b>	
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**Question 9: 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,

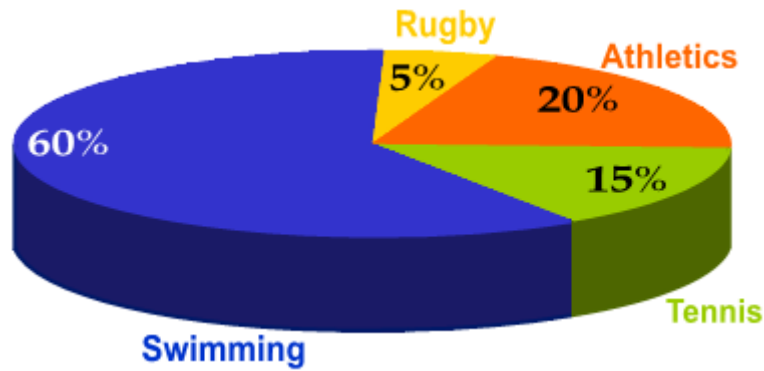
infinite decimal fraction with a recurring pattern of (3) digits.

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

<b>1</b>	
<b>3</b>	

<b>2</b>	
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**This image refers to question: 10**



**Question 10: 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]

**Question 11: 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.

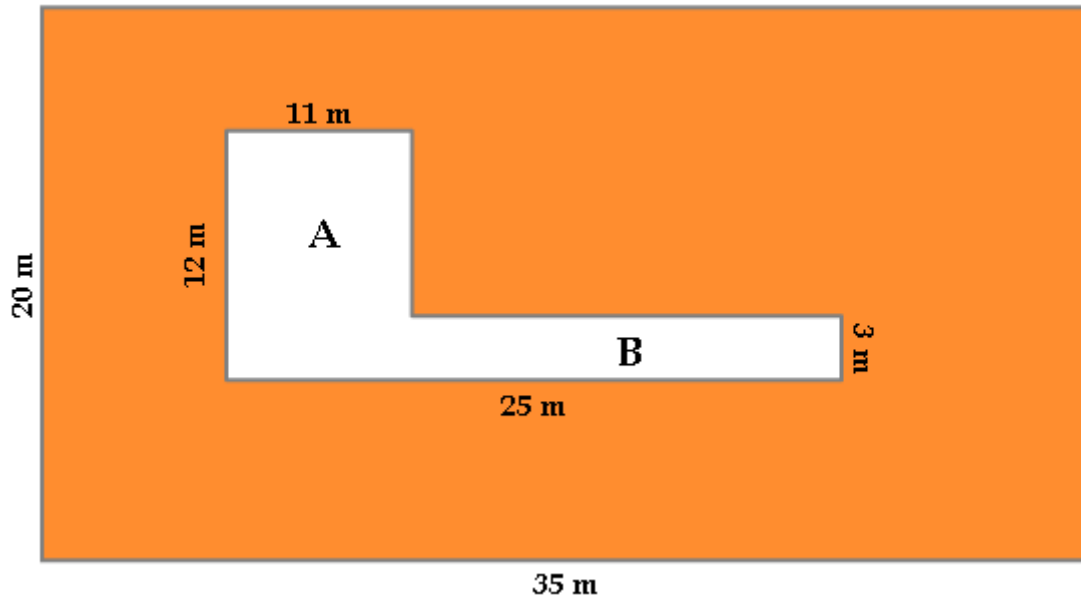
To get freezer burnt, the temperature must decrease by (3) from 11°C.

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

<b>1</b>	<input type="text"/>
<b>3</b>	<input type="text"/>

<b>2</b>	<input type="text"/>
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**This image refers to question: 12**



**Question 12: Text Input**

3 marks

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

[Give only the number]

**Question 13: 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 14: 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: + | - |  $\times$  | = | < | >

<b>1</b>	
<b>3</b>	

<b>2</b>	
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**Question 15: 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>	

<b>2</b>	
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**Question 16: 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    |

**Question 17: 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

<b>1</b>	
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<b>2</b>	
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**Question 18: True/False**

1 mark

The number 48 has six factors.

<b>TRUE</b>
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<b>FALSE</b>
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**Question 19: 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 20: 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]

**Question 21: Text Input**

3 marks

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

[Give the decimal number only]

**Question 22: 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.

 TRUE FALSE**Question 23: 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> | $1\frac{1}{25}$ |



**Question 24: True/False**

2 marks

The year 1900 was a leap year.

 TRUE FALSE**Question 25: Text Input**

2 marks

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

[Give the decimal number only.]

**Question 26: Multiple Choice**

1 mark

The ... of  $35^\circ$  is  $145^\circ$ . A complement B supplement C  $90^\circ$  D  $180^\circ$ **Question 27: True/False**

2 marks

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

 TRUE FALSE

**Question 28: 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 29: Text Input**

3 marks

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

[Give only the number]

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**Question 30: 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"/>
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<b>2</b>	<input type="text"/>
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**Total: 98 Marks**