



# Noah's Ark Independent Primary School

Subject: Mathematics	Examiner: Rwizi, A.
Type: Summative Assessment	Moderator: Böhmer, M.A.
Date: 5 October 2020	Grade: 5-___
Marks: 50 Marks	Time: 1 hour 15 minutes

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

## Instructions:

Carefully read ALL the questions before answering.

Answer ALL the questions.

Write legibly and present your work neatly.

Show ALL your working where applicable.

## Section A: Numbers, Operations and Relationships

### Question 1

Use the list of whole numbers in the box below to answer questions that follow.

2	60	66
1	303	
4	68	322

- 1.1 The only even number that is a prime number. \_\_\_\_\_ (1)
- 1.2 A two-digit number that is a multiple of 5 and 10. \_\_\_\_\_ (1)
- 1.3 Two multiples of 4 that come between 58 and 70. \_\_\_\_\_ (1)
- 1.4 A number that can squarely divide into all the given whole numbers in the box above: \_\_\_\_\_ (1)

## Question 2

2.1 What is  $\frac{1}{4}$  of 20? \_\_\_\_\_ (1)

2.2  $\frac{2}{8} + \frac{5}{8} =$  \_\_\_\_\_ (1)

2.3 Which of the following gives the greatest value? (2)

a.  $\frac{1}{3}$  of 72

b.  $\frac{5}{8}$  of 64

c.  $\frac{3}{4}$  of 20

Work each one out to get their values.

2.4 What number is missing in the box below? (1)

$$\frac{2}{12} + \frac{6}{12} + \frac{\quad}{12} + 10 = 11 \quad \text{_____}$$

## Question 3

Calculate the following:

3.1  $\square \div 8 = 72$

(2)

3.2  $8\frac{7}{10} - 5\frac{4}{10}$

(2)

3.3  $7\frac{2}{8} - 2\frac{3}{8}$

(3)

3.4  $15 + 15 \div 5 \times 6$

(2)

Question 4

4.1 Arrange the following fractions from the smallest to the biggest:  $\frac{1}{3}$ ;  $\frac{1}{2}$ ;  $\frac{1}{4}$ ;  $\frac{1}{6}$  (2)

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4.2 Tsaone and his two friends put their savings together to buy beads to make necklaces. Tsaone saved R120. The total of their savings is R370. Tsaone's two friends each saved the same amount. What amount did each friend save? Clearly show your working. (3)

4.3 Thato had R50 in her wallet. She lost  $\frac{3}{5}$  of her money. How much money did she lose? (2)

## Section B: Patterns, Functions and Algebra

### Question 5

5.1 a) Write the next two numbers in the sequence below: (2)

5 ; 11 ; 17 ; 23 ; \_\_\_\_\_ ; \_\_\_\_\_

b) Describe the above pattern in words. (2)

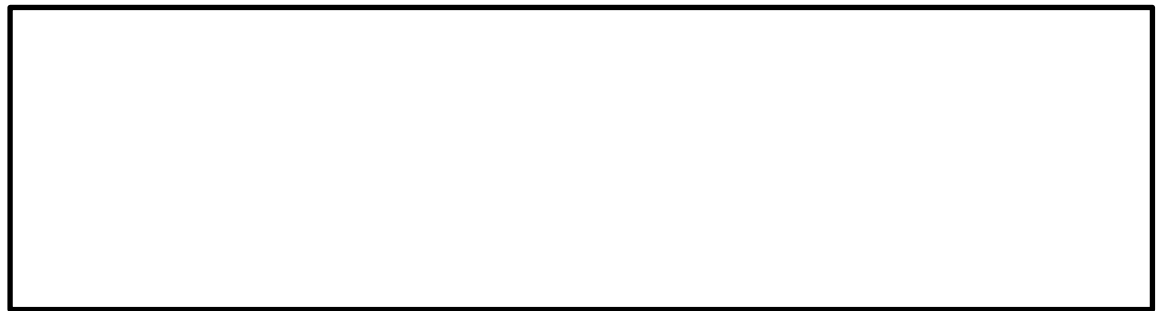
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5.2 Look at this pattern of circles.



a) Draw the next diagram in the pattern. (3)

b) Find a rule to calculate the number of circle needed for any diagram number. (3)

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\_\_\_\_\_ / 10 (Section B)

## Section C: Measurement

### Question 6

Complete the following

6.1 10mm = \_\_\_\_\_cm (1)

b.2  $1 \text{ kg} = \text{-----} \text{ g}$  (1)

b.3 Water freezes at  $\text{-----}^\circ\text{C}$  (1)

b.4 Calculate the following:

a)  $10\frac{1}{4} \text{ kg} = \text{-----} \text{ g}$

(2)

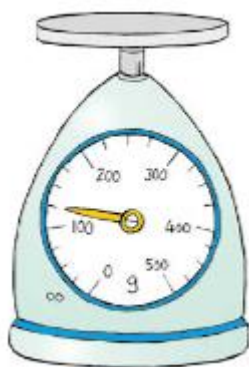
b)  $15\frac{1}{2} \text{ cm} + 10 \text{ cm} + 600 \text{ mm} = \text{-----}$

(2)

c)  $\frac{1}{10} \text{ km} = \text{-----} \text{ m}$

(2)

b.5 Write the mass shown on the scale below. (1)



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b.6 Ongeziwe weighs 48 kg. Blessing's weight is  $\frac{5}{6}$  of Ongeziwe's weight. Andile's weight is  $\frac{4}{5}$  of Blessing's weight. Calculate Andile's weight. (3)

b.7 Organize these temperatures in ascending order. (2)

$0^{\circ}\text{C}$  ;  $42^{\circ}\text{C}$  ;  $-2^{\circ}\text{C}$  ;  $120^{\circ}\text{C}$  ;  $5^{\circ}\text{C}$  ;  $17\frac{1}{2}^{\circ}\text{C}$

\_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_

\_\_\_\_\_ / 15 Marks (Section C)

\_\_\_\_\_ / 50 Marks TOTAL