



Noah's Ark Independent Primary School

Subject: Mathematics	Examiner: Rwizi, A
Type: End of 3 rd Term Assmt.	Moderator: Böhmer, MA
Date: 11 September 2019	Grade: 6-_____
Marks: 78 Marks	Time: 2 hours

Name: _____

Instructions:

This question paper consists of 5 sections.

Answer ALL the questions in the space provided

Show ALL your calculations where applicable

Write neatly and legibly.

For multiple-choice questions circle the letter of the correct answer.

Section A: Numbers, Operations and Relationships

Question 1

1.1 What is 10% of R2 500? (1)

- a. R500 b. R150 c. R250 d. 250 cents

1.2 79 604 could have been rounded to the nearest _____ or _____ to get 79 600. (1)

- a. 5 or 10 b. 5 or 1 000 c. 100 or 1 000 d. 10 or 100

1.3 Calculate: $4 \times (12 - 8) \div (16 \div 4) \times 1$ (1)

- a. 16 b. 4 c. 8 d. 0

1.4 The sum of 800 and 10 is subtracted from the product of 200 and 10. Which of the following number sentences is best suited to the above statement? (1)

- a. $(800 + 10) - (10 \times 200)$ b. $(200 \div 10) - (800 + 10)$
c. $(200 \times 10) - (800 + 10)$ d. $(800 - 10) - (200 \div 10)$

1.5 With which operation sign must you replace the * so that the number sentence $15 = 5 \times 2 + 500 * 100$ is correct? (1)

- a. \times b. $-$ c. $+$ d. \div

1.6 Write the following number in expanded notation: (2)

420 075 061

1.7 What is the value of the even prime digit in the number below? (1)

362 759 810

1.8 Complete the following number sentence. (2)

$785\,300 - \text{_____} = 705\,300$ so $80\,000 + \text{_____} = 785\,300$

Question 2

2.1 Calculate the answers to the following:

a) $798 + 56\,723 + 241\,856$	b) $948\,625 - 79\,431$
(2)	(2)

Question 3

3.1 A new projector for the Grade 6 Buffalo costs R 4 000. The Grade 6 Buffalo class is asked to collect 70% of the money.

a. How much money must the class collect? (2)

b. What will be the outstanding balance? Clearly show your working. (2)

3.2 Mr Rwizi plans to buy a house which costs R980 000. He has saved R380 875 and plans to apply for a loan from the bank. How much money does he need to borrow from the bank? (2)

3.3 In a Grade 6 class, x number of learners failed a maths test out of 25 learners. The percentage of learners who failed is 20%.

a. Write a number sentence to determine the percentage of learners who failed. (1)

b. Use your number sentence to solve for x number of learners. (2)

_____ / 36 Marks (Section A)

Section B: Patterns, Functions and Algebra

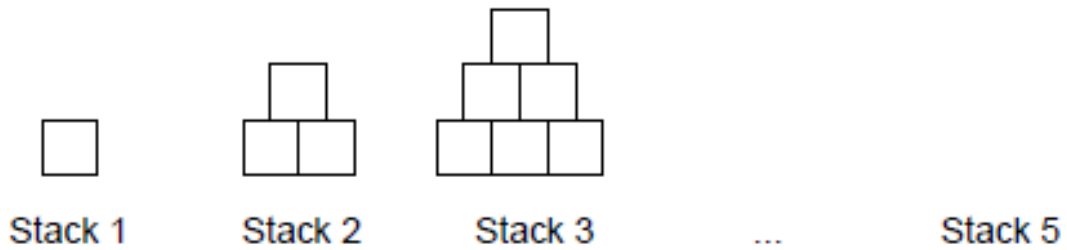
Question 4

4.1 Complete the pattern below. (2)

36 ; 30 ; _____ ; _____ ; 12

4.2 Describe the pattern above. (2)

4.3 Ingrid has stacked some blocks in a certain pattern. Use the same pattern to draw stack 5. (2)



4.4 Differentiate between constant difference sequence and constant ratio sequence. (3)

_____ / 9 Marks (Section B)

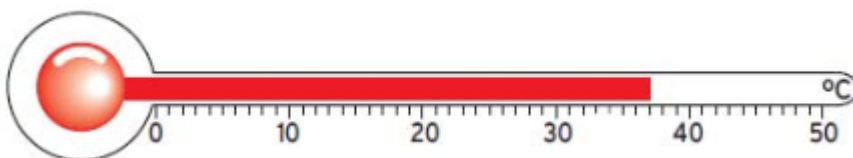
Section C: Measurement

Question 5

5.1 $3\frac{3}{4}$ kg = _____ g (1)

5.2 7 500 m = _____ km (1)

5.3 What is the temperature on the thermometer below? (1)



5.4 Look at the weather report for ten different capital cities of the world. Then answer the question that follows.

Capital City	Max.	Min.
Helsinki	-5 °C	-9 °C
London	10 °C	8 °C
Maputo	27 °C	19 °C
New Delhi	24 °C	9 °C
Ottawa	2 °C	-5 °C
Paris	9 °C	5 °C
Prague	2 °C	-2 °C
Pretoria	25 °C	19 °C
Tokyo	8 °C	2 °C
Washington DC	9 °C	6 °C

- a. Arrange the minimum temperatures from lowest to highest. (2)

5.5 Convert 0,01 km to m. Clearly show your working. (2)

5.6 Lerato leaves her aunt's house and drives 25,4 km to her grandmother's house. After visiting her grandmother, she drives 34,5 km to her brother's school. They then drive 14,2 km home. How long was the trip altogether. (2)

5.7 Round off each of the following lengths to the nearest whole number:

a. $79,5 \text{ cm} = \text{-----}$ (1)

b. $2\ 923,4 \text{ km} = \text{-----}$ (1)

5.8 Add the following lengths (1)

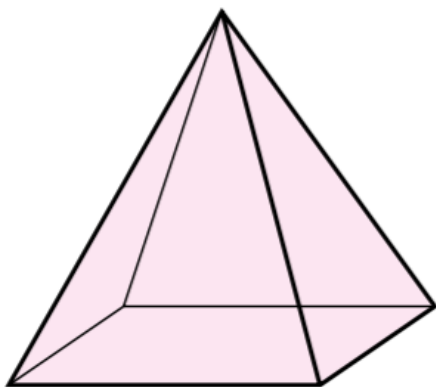
$92,3 \text{ m} ; 102,5 \text{ m} ; 10 \text{ m}$

----- / 12 Marks (Section C)

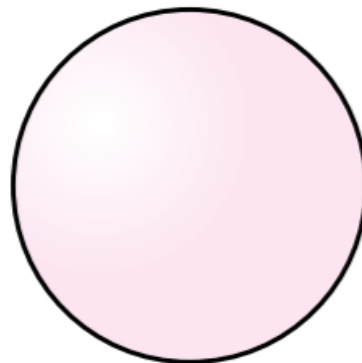
Section D: Space and Shape

Question 6

6.1 Look at the two solid objects below



Object A



Object B

Draw what each object will look like when you look down at it from directly above.

Object A	Object B
(1)	(1)

6.2 Say whether each of the following statements is True or False. (2)

a. Some polygons have more than four sides. _____

b. There are only 2 types of quadrilaterals. _____

6.3 A triangle has sides of lengths 5, 10, 12 units. It was enlarged by a factor of 3. What are the lengths of the sides of the new triangle? (2)

6.4 Differentiate between a regular polygon and an irregular polygon. (3)

_____ / 9 Marks (Section D)

Section E: Data Handling

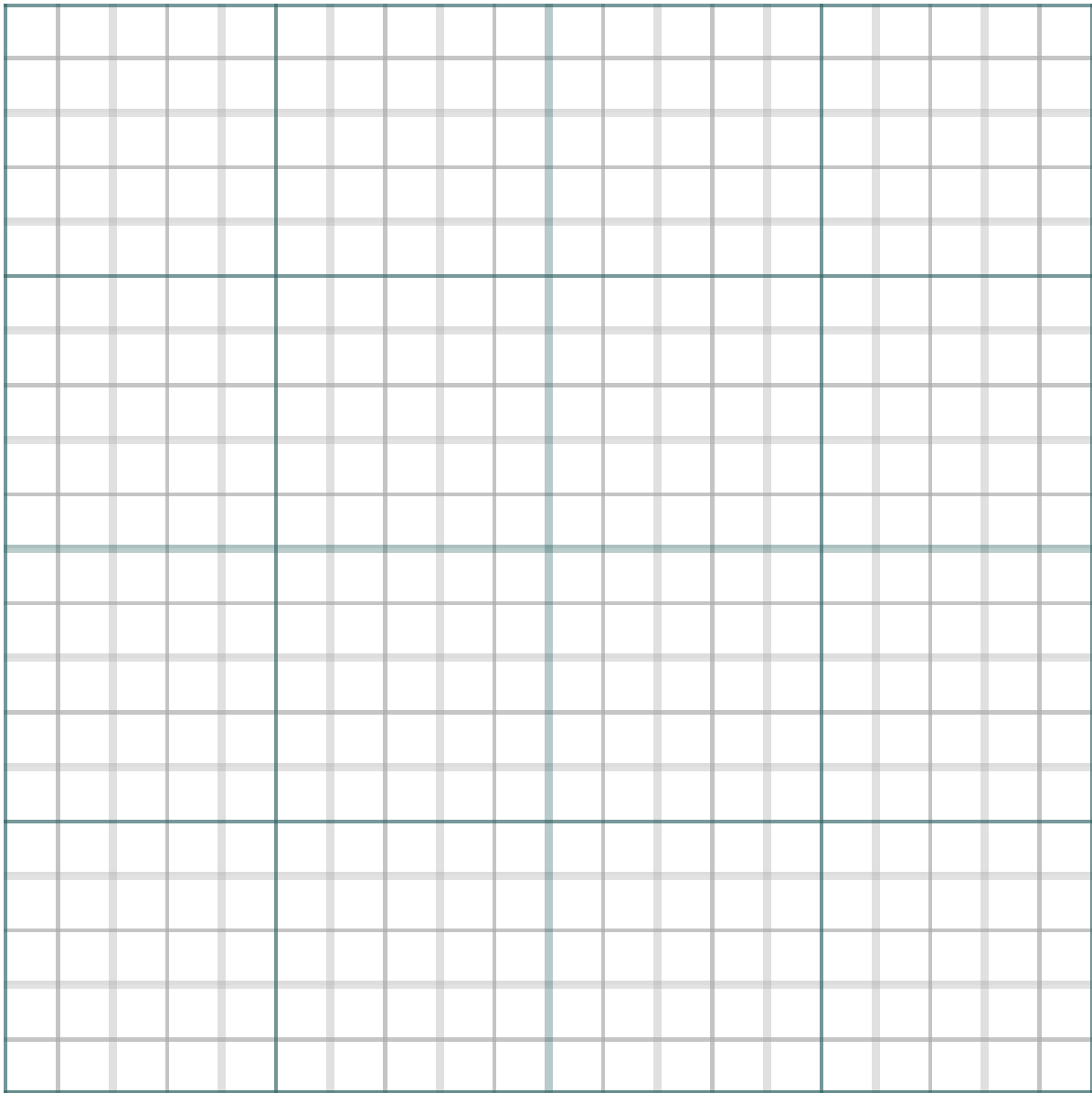
Question 7

7.1 Use the data in the table below to answer the questions that follow.

Name of learners	Class work marks
Thabo	8
Pule	3
Nthabiseng	7
Palesa	13
Karabo	5
Tshiamo	9
Buitumelo	3

- What is the median of the data? _____ (1)
- State the mode of the data. _____ (1)
- Who got the highest mark? _____ (1)
- Calculate the range. (2)

- e. Draw a bar graph to show the marks for the top three learners. (3)



- 7.2 Differentiate between the mode and the median. (4)

_____ / 12 Marks (Section E)

_____ / 78 Marks TOTAL