Noah's Ark Independent Primary School

Subject: Mathematics	Examiner: Rwizi, A
Type: End of 4th Term Assmt.	Moderator: Böhmer, MA
Date: 24 November 2020	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 x (12 - 8) ÷ (16÷4) x 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 x 200) b. (200 ÷ 10) - (800 + 10)

c. (200 x 10) - (800 + 10) d. (800 - 10) - (200 ÷ 10)

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

a. x b. - c. + d. ÷

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 - _____ = 705 300 so 80 000 + _____ = 785 300

Question 2

2.1 Calculate the answers to the following:

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

c) 6 361 x 782 (4)	d) 14 increased by the quotient of 8 352 and 87 and a square of 8 is equal to _____. (3)

2.2 Arrange the following numbers in descending order. (2)

2 367 472 ; 386 475 ; 2 386 500 ; 2 367 574

_____ ; _____ ; _____ ; _____

2.3 Solve for the value of x if x - 2 728 485 = 7 391 658 (2)

2.4 Calculate the following: 25% of R500. Clearly show your working. (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)

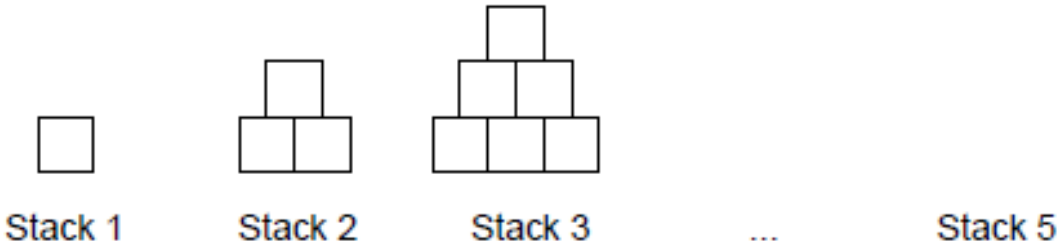
36 ; 30 ; _____ ; _____ ; 12

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)

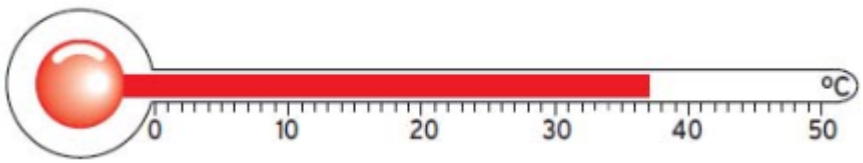
Section C: Measurement

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)



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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

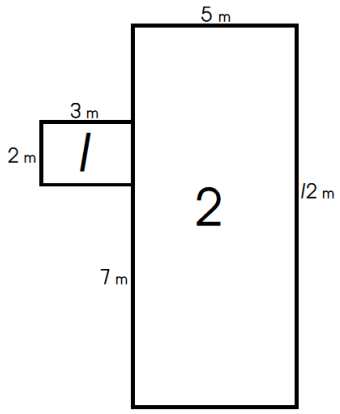
a. Determine the average of minimum temperatures (2)

_____

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 hear 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 Calculate the area of the shape below. (3)

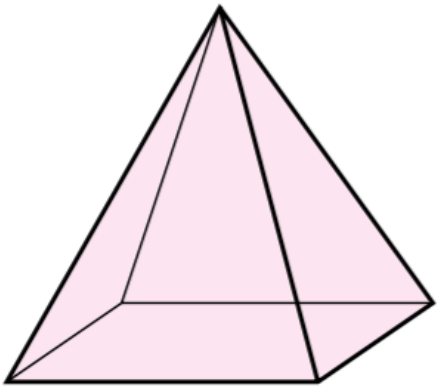


_____ / 12 Marks (Section C)

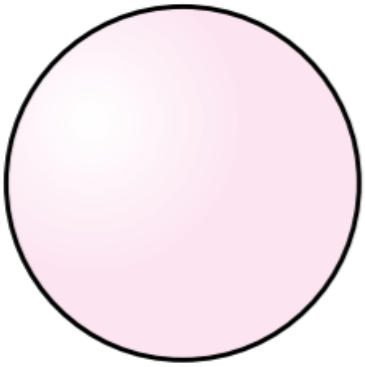
Section D: Space and Shape

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

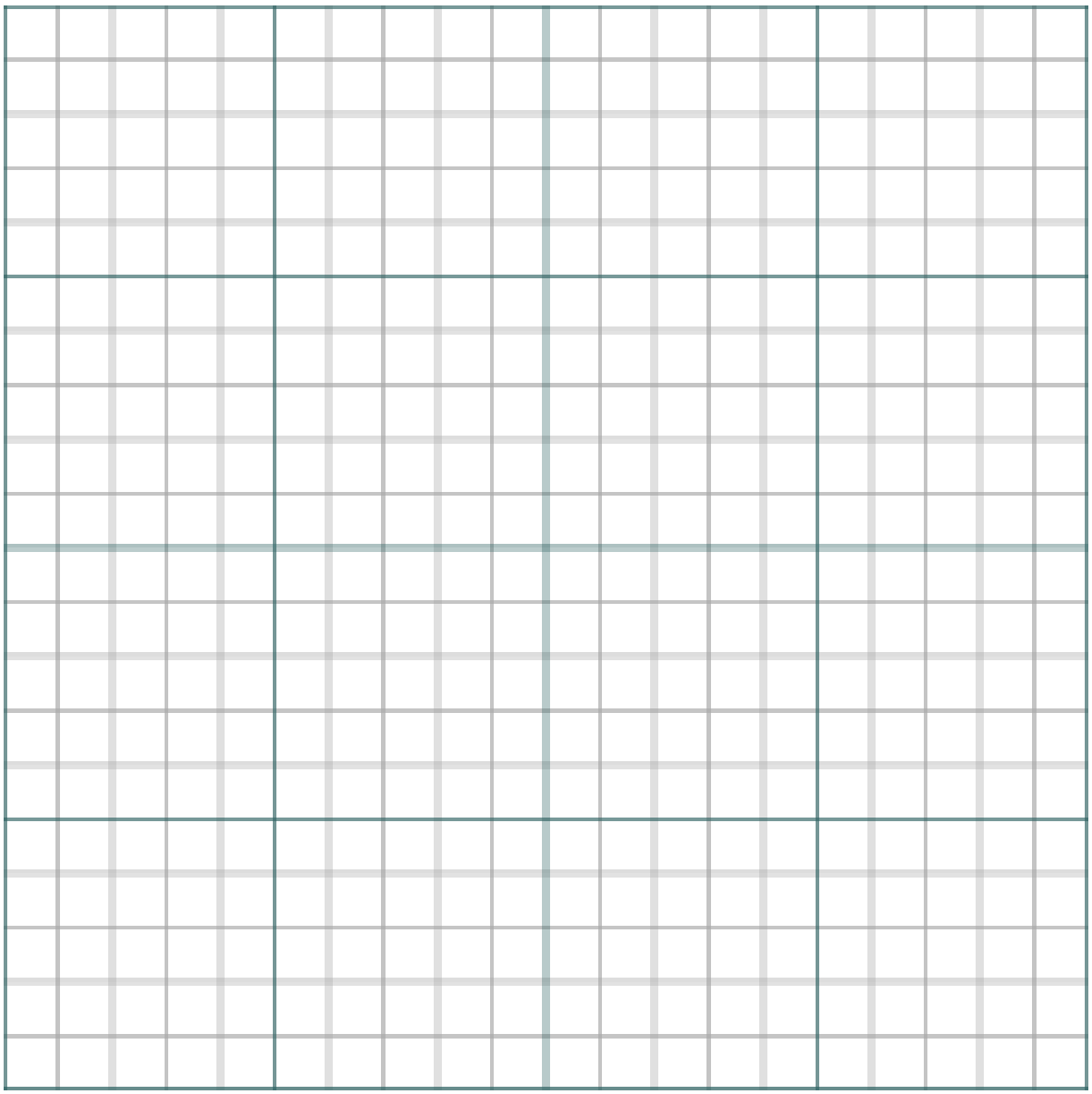
a. What is the median of the data? _____ (1)

b. State the mode of the data. _____ (1)

c. Who got the highest mark? _____ (1)

d. 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)

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_____

_____

_____

_____ / 12 Marks (Section E)

_____ / 78 Marks TOTAL