



Noah's Ark Independent Primary School

Subject: Mathematics	Examiner: Mr Matlaku
Type: End of year Exam	Moderator: Mr Zulwayo
Date: 20 November 2019	Grade: 6
Marks: 80 Marks	Time: 2 Hours

Name: _____

Instructions:

Answer ALL the questions in the spaces provided.

Write neatly and legibly

Carefully read all questions before answering

Section A: Numbers, Operations and Relationships

Question 1

Circle the correct answer

1.1 What fraction is the same as 3,08?

- a. $\frac{56}{25}$ b. $\frac{77}{25}$ c. $\frac{19}{5}$ d. $\frac{32}{5}$

1.2 When 5 476 is divided by 7, the remainder is...

- a. 2 b. 3 c. 1 d. 0

1.3 Mr Matlaku had R 500 in his wallets. He lost R 50. Express the money he lost as a percentage.

- a. 10% b. 20% c. 40% d. 45%

1.4 First round off the following numbers to the nearest hundred, then complete the calculation:

$$3\ 674 + 8\ 999 + 715 + 608 = \dots?$$

- a. 15 800 b. 16 010 c. 14 000 d. 15 990

(4)

Question 2

2.1 Choose one number out of the following set of numbers that fits each of the descriptions below:

21; 8; 33; 19; 60; 9

a. Multiple of 10: _____ (1)

b. A product of three and a prime number which is between 10 and 20:
_____ (1)

c. A factor of 27: _____ (1)

2.2 What is the value of the underlined digit in 95 461 287? (1)

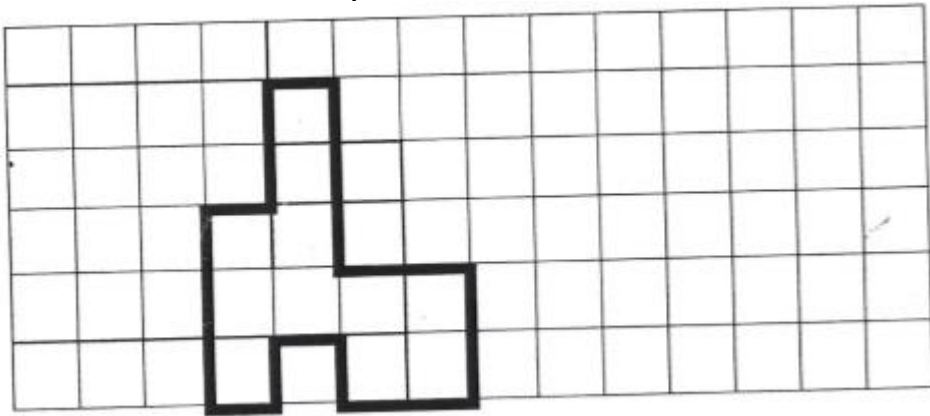
2.3 Write down the value of the following: (1)

$2 \times 2 \times 3 \times 3 \times 5 =$ _____

2.4 Round 386 943 off to the nearest 1 000. (1)

- b. How many litres of water in total will have been taken from the tank for you to fill 15 of the 200 / containers?
(2)

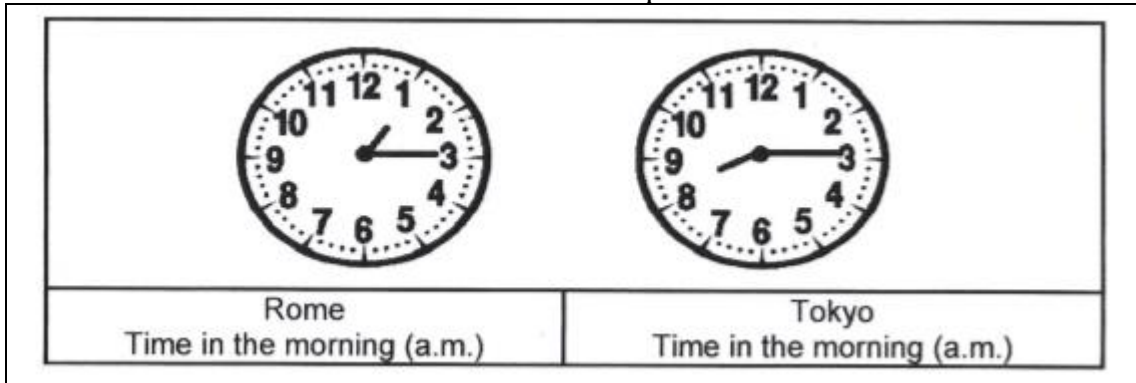
- 6.3 The sides of each square is 2m long.
Calculate the Area of the space drawn below. (2)



Area =

- 6.4 Given that the volume of a rectangular prism is 120m^3 , breath = 5m and height =3m. Calculate the length of the rectangular prism above. Clearly show all your working. (3)

6.5 Read the time on the world clocks and answer the question below.



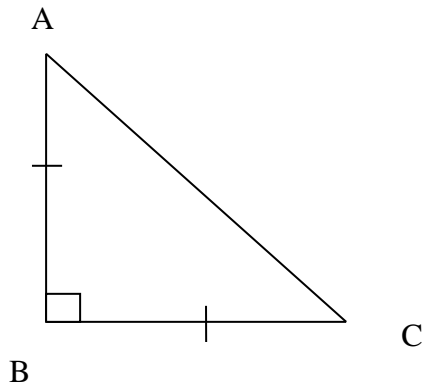
Calculate the time difference between Rome and Tokyo.

_____ / 12 Marks (2)

Section D: Space and Shapes

Question 7

7.1 Study the following 2D- shape.



a. Draw lines of symmetry in the above shape. (1)

b. Give the name of the above shape. (1)

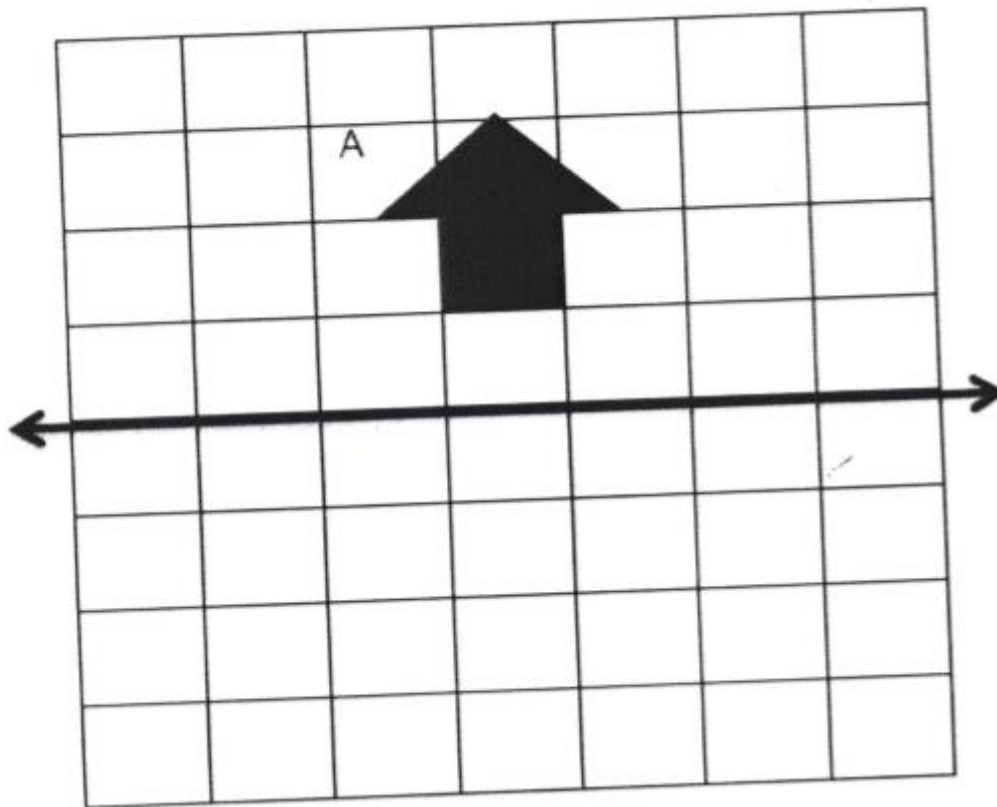
7.2 Define the net as applied to 3D- objects. (1)

7.3 Complete the following table (4)

	Cube	Pentagonal pyramid
Shape of faces		
vertices		

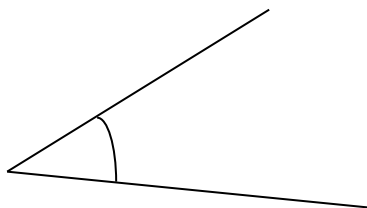
7.4 Draw the reflection of shape A in the square below.

(2)



7.5 What type of angle is this?

(1)



7.6 A square has rotational symmetry of order _____

(2)

Section E: Data Handling

Question 8

8.1 The following data show the number of cool drinks that the tuck shop sells every day for a week.

22; 20; 21; 25; 23; 25; 24; 25.

a. Arrange the numbers of cool drinks in ascending order. (2)

_____ ; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ; _____

b. What is the mode of the set of data? (1)

c. Determine the median of the set of data. (2)

- 8.2 Determine the probability of getting the following when tossing a die (dice):
- a. even number: _____ (2)
 - b. a seven: _____ (1)
- (8)

Grand total [80]