Mathugama Education Zone

Second Term Test - 2023

Grade 6	**Subject - Mathematics**	**Paper I/II**	**Duration – 2hours**

Name.....

Part I

Attention

- Answer all the questions in this paper itself

1) Underline the circular shapes
   I. The egg II. The bangle III. The ring IV. The orange

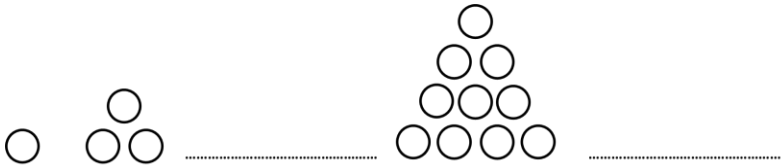
2) The number 2002300500,
   I. Write in standard form
   II. Write in words

3) Assign the < or > sign in the empty boxes to make it true

i) $\frac{5}{12} \square \frac{5}{8}$ ii) $\frac{9}{20} \square \frac{7}{20}$

4) A child walked 8m to the north direction and then 8m to the east direction and stopped. In which direction does he now see the starting point?

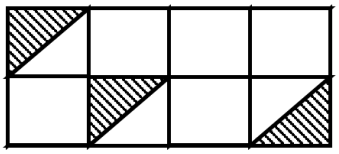
5) Draw the 3rd and 5th terms of the following number pattern.



6) Fill in the blanks to get equivalent fractions.

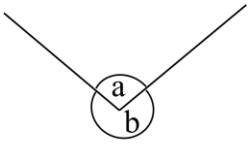
$$\frac{2}{3} = \frac{6}{\square} = \frac{\square}{21}$$

7) Denote the unshaded portion as a fraction



8) Write the multiples of 7 between 40 and50

9) Write two types of angles seen in the given figure



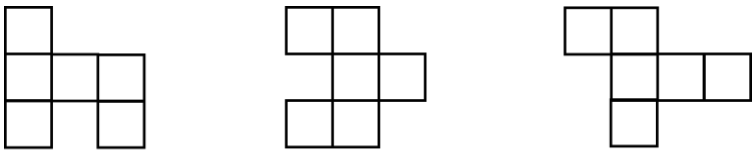
a - …….. b - …….

10) Write all the factors of 18

11) The marks scored by Nimal for mathematics is 70 when it is rounded off to the nearest 10.
   i) What is the lowest mark that he could have obtained?
   ii) What is the highest mark that he could have obtained?

12) After a few student drank soft drinks from a bottle of 1.5 l, the remaining amount of soft drinks was 285 ml. Denote the amount of soft drinks that the students drank in liters and milliliters.

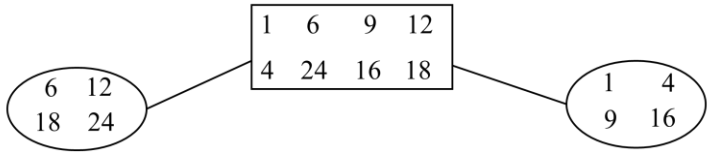
13) Select the net that can form a cube and underline it.



(i) (ii) (iii)

14) Mark (√) if the following statements are true and mark (X) if they are false.
   i) 1 is a prime number
   ii) All the square numbers are composite numbers

15) The numbers in the cage are divided into 2 groups according to their characteristics. Write the appropriate names that match the groups for the divided groups.

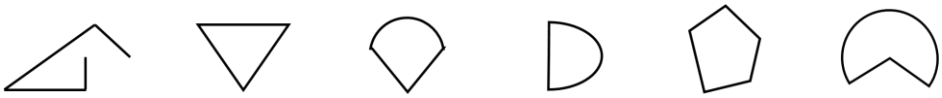


…… ……

16) Write in descending order.
0.3 , 0.35, 1.3 , 0.03

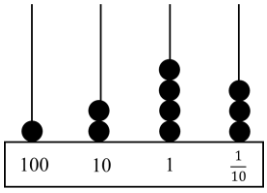
17) Name 2 quadrilaterals which are having equal sides

18) Underline the rectilinear closed plane figures.

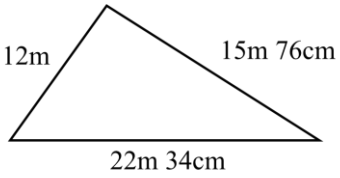


(a) (b) (c) (d) (e) (f)

19) The number shown in the abacus,
i) Write in numbers
ii) Write in words



20) Find the perimeter of the triangle given in the figure.



Part II

- **Answer first question and four other questions.**
- **First question carries 16 marks and each other question carries 11 marks**

1) a) Two number patterns constructed by two students are given below.

Samitha		Kalana	
1	= 1	1	= 1
1 + 2	= 3	1 + 3	= 4
1 + 2 + 3	= 6	1 + 3 + 5	= 9
1 + 2 + 3 + ….= …..		1 + 3 + 5 + ….= ..…	

Copy these two number patterns in the answer sheet,

i) Fill in the blanks. (04 marks)
ii) What type of number pattern is built up by Samitha? (01 mark)
iii) What type of number pattern is built up by Kalana? (01 mark)
iv) Represent the last term by a dot pattern? (02 marks)

v) Write all square numbers from 1 to25 (02 marks)

vi) Select and write the smallest composite number from the numbers obtained in both the above patterns. (02 marks)

b) 254 ….

i)If this number is divisible by 2 without remainder, write all the digits that match in the blank. (02 marks)

ii)If this number is divisible by 5 without remainder, write all the digits that match in the blank. (02 marks)

2) i) Represent 70.45 in an abacus (02 marks)

ii)Write the following fractions as decimal numbers. (02 marks)

$\frac{15}{10}$ = …… $\frac{7}{100}$ = ……..

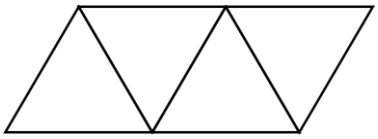
iv) Fill in the blanks using <, > or = signs (03 marks)

a) 0.05 ..... 0.5
b) 0.7 ..... 0.70
c) 5.8 ..... 5.75

iv) Find the value

a) 1.75 + 2.8 = ... (02 marks)
b) 9.5 – 4.85 = ... (02 marks)

3) a) A solid can be made with the following net. (04 marks)



i) Write the name of this solid

ii) How many faces are there?

iii)How many edges are there?

iv)How many vertices are there?

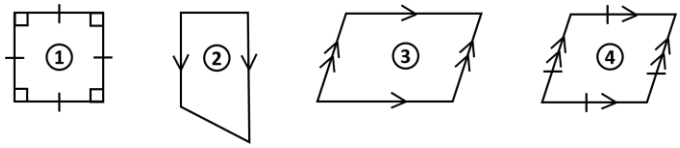
b) 24 357,

i) What is the place value of 4? (01 mark)

ii) How many times the value represented by 4 is the value represented by 5? (01 mark)

c)

Observe the above figures and write down the names of each figure (04 marks)



Number of the figure	Name
1	
2	
3	
4	

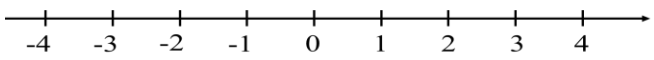
4) a) Write the following fractions in ascending order (02 marks)

$\frac{3}{4}$, $\frac{3}{9}$, $\frac{3}{7}$, $\frac{3}{20}$

b) Simplify

i) $\frac{3}{9}+\frac{2}{9}$ (01 mark) ii) $\frac{3}{4}+\frac{2}{20}$ (02 marks)

c) i) Mark (-3) and 2 on the following number line (02 marks)



ii)Write all the negative integers from -3 to 2 in ascending order (02 marks)

5) a) Simplify

i)

	Minutes	Seconds
	20	42
+	12	38

(02 marks)

ii)

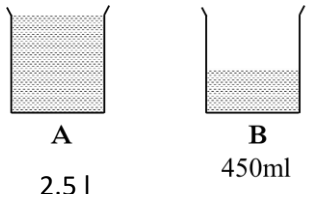
	Hours	Minutes
	5	12
-	2	20

(02 marks)

b) Fill in the blanks (03 marks)

i) 4.7 cm = …… mm ii) ……..m = 1520 cm iii)5 km 20 m = …… km

c) Following diagram shows the amount of water filled to two vessels A and B.



i) What is the volume of water in vessel A in ml? (01 mark)

ii) What is the volume of water in vessel B in l? (01 mark)

iii) How much more is the amount of water in vessel A than the amount of water in vessel B? (02 marks)

6) a) A and B are two small schools. 1007 students study in school A and 695 students study in school B.

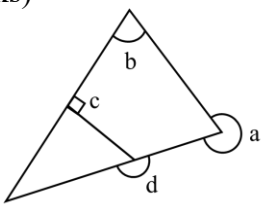
i) How many students are there in both A and B schools altogether? (02 marks)

ii) How many students are there in school A than school B? (02 marks)

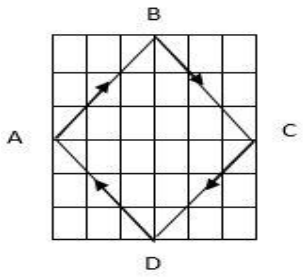
iii) 25 students study in grade 6 in school A. 15 books were given to each student as a donation. How many books were distributed among all? (03 marks)

b) Name the types of angles in the given figure (04 marks)

a =
b =
c =
d =



7) a) The grid shows how an ant moves on a flat surface (03 marks)



Path	Direction of the path
A to B	North East
B to C	……..……..
C to D	……
D to E	…….

b) i) Separate into two groups according to a common characteristic (04 marks)

Square, Cube, Trapezium, Cylinder, Tetrahedron, Triangle, Cuboid, Rectangle

……. ……

ii) Write down suitable names for each on given dotted lines (02 marks)

c) Fill in the blanks with appropriate words. (02 marks)

i) The instrument used to measure the horizontality of a plane is called ……..

ii) A device called ..... is used to detect verticality