



Minuwangoda Zonal Education

## Second Term Evaluation - 2024

Grade 7

Mathematics

Name: .....

Time: 2 hours

### Part I

Answer all the questions

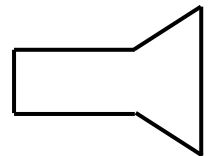
1) Simplify  $5\frac{2}{5} + 3\frac{1}{5}$

2) Find the value

i.  $56.75 \div 10 =$

ii.  $0.765 \times 100 =$

3) Draw the axes of symmetry

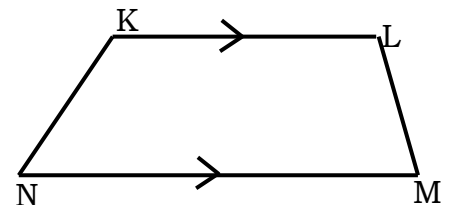


4) Find the value,  $5 + 6 \times 2 - 1$

5) Write in index form  $x \times x \times x \times y \times y$

6) If 1kg 350g amount of rice is enough per day, find the amount enough per a week

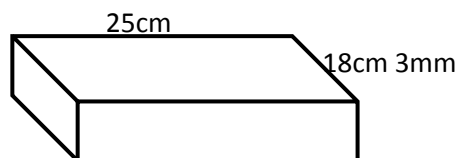
7) Write a pair of parallel sides.



8) Find the amount of milk that is poured to one bottle if  $7l\ 200ml$  of milk is poured equally into two bottles.

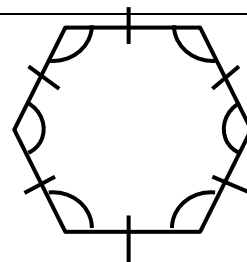
9) Is A.D. 1900 a leap year. Give reasons.

10) If the length and the breadth of a book are 25cm and 18cm 3mm respectively, How much length is greater than breadth.



11) Underline the correct answer

This figure is shown a ..... (Convex / Concave)  
regular ..... (Pentagon / Hexagon)



12) Find the value of  $a + 3b$ , If  $a = 2$  and  $b = 6.5$

13) If the given statement is correct put a ( $\checkmark$ ) mark and unless a (X) mark.

- i. The angles having a constant magnitude are called as dynamic angles. (      )
- ii. The sum of two acute angles is not a straight angle possibly. (      )

14) Find the area of a square shaped class room, if the perimeter is 40m

15) Simplify,  $10x + 7y - 10y - x$

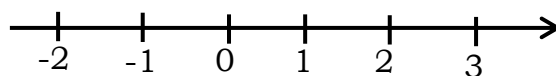
16) If

$$8 = 2 \times 2 \times 2 = 2^3$$

$$12 = 2 \times 2 \times 2 = 2^2 \times 3$$

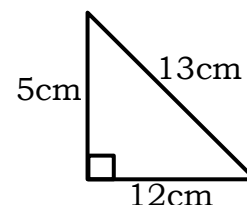
$$24 = 2 \times 2 \times 2 \times 3 = 2^3 \times 3 \text{ Find the least common multiple}$$

17) Find the value of  $2 + (-3)$  using a number line.



18) Fill in the blanks using suitable sides.

- i. This a ..... triangle according to the lengths of sides.
- ii. This is a ..... triangle according to the magnitudes of angles.



19) Express  $3\frac{2}{5}$  as an improper fraction

20) Write the set A using the element within curly brackets

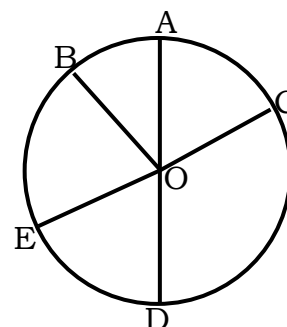
$A = \{\text{Multiples of 2 from 1 to 10}\}$

## Part II

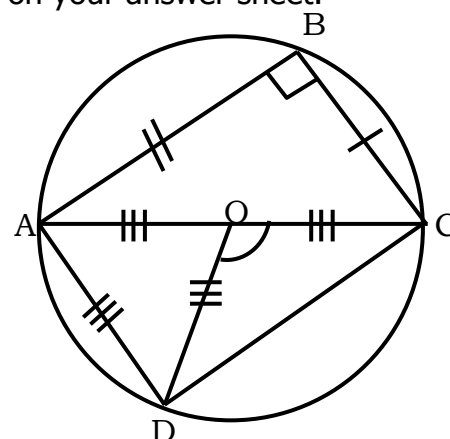
- Answer for first question and 4 other questions.
- First question carries 16 marks and other each question carries 11 marks.

01) Remind an activity in the lesson of "Circles" that you have completed.

- a) Name an instrument of Mathematical instrument box that is used for drawing a circle.
- b) AD is a straight line which is divided the circle in to two equal parts. Fill in the blanks using below figure.
  - i. Name the centre
  - ii. Name two radii
  - iii. Name the diameter
  - iv. Write the relationship between BO and AD
- c) Draw a circle with the radius is 3.5cm
- d) Fill in the blanks using below figure by copying given table on your answer sheet.



The type of Triangles	Name of the triangle
1) Equilateral triangle	
2) Isosceles triangle	
3) Scalene triangle	
4) Right angled triangle	
5) Acute angled triangle	



- 02)
- (a) The length of a rectangle is  $x$  cm and breadth is 5cm less than it. If the perimeter is P,
    - i. Write the breadth using " $x$ "
    - ii. Build up an formula for the perimeter using " $x$ "
    - iii. Simplify it
    - iv. Find the value of P, if  $x = 12$ cm

(b) Simplify  $5a - 4 = 51$

- 03)
- a) Express 0.96 as a fraction and keep it in simplest form
  - b) Find the value
    - i.  $4.897 \times 100$
    - ii.  $78.59 \div 1000$
    - iii.  $16.98 \times 14$
    - iv.  $95.94 \div 9$

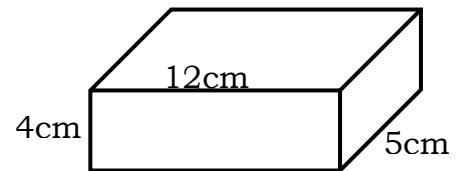
04) Do the below constructions on a same figure using only simple edge and a pair compass

- Construct the straight line segment with  $AB = 4\text{cm}$
- Construct the circle by taking  $AB$  as the radius and the centre as "O"
- Mark the point  $C$  on the circle such that  $\angle BAC = 120^\circ$
- Complete the triangle  $ABC$
- Measure the magnitude of  $\angle ACB$
- Which type of the triangle  $ABC$  according to the angles.

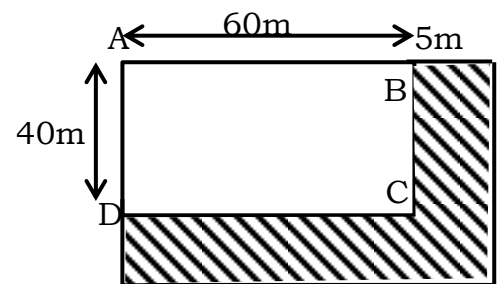
05)

(a)

- Find the volume of a cube with a side is  $6\text{cm}$
- Find the volume of a cuboid which is given below with the length, breadth and the height are  $12\text{cm}$ ,  $5\text{cm}$  and  $4\text{cm}$  respectively



- (b) There is a road of  $5\text{cm}$  of breadth bordered to the two sides of the land as shown below such that the length  $AB$  and the breadth  $AD$  are  $60\text{m}$  and  $40\text{m}$  respectively of a land  $ABCD$ . Find the area of the road.



06)

- Write  $32$  in index form with the base is  $2$
- Write  $180$  as the product of prime numbers
  - Write it in index form
- Expand,  $5x^3y^3$
- Find the value of  $x^3y^2$ , If  $x = 2$  and  $y = 2$
- Fill in the blanks.  $2^3 \dots\dots\dots 3^2$  ( $>$ ,  $<$ )

07)

(a)

- Write  $2\frac{3}{4}$  as an improper fraction
- Write  $\frac{11}{7}$  as a mixed number
- Use the suitable symbols ( $<$ ,  $>$ )
  - $2\frac{1}{4} \dots\dots\dots 2\frac{3}{8}$
  - $5\frac{2}{3} \dots\dots\dots \frac{17}{3}$
- Simplify and keep the answer in the simplest form
  - $1\frac{3}{5} + 5\frac{1}{2}$
  - $4\frac{2}{3} - 2\frac{1}{6}$

- (b) Namal gave  $\frac{3}{8}$  of his land for son and  $\frac{1}{4}$  for the daughter. Find the excess portion of land got son than daughter

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