



JAFFNA HINDU COLLEGE

First Term Exam - 2023

Grade - 08

Mathematics

Time :- 2 Hours

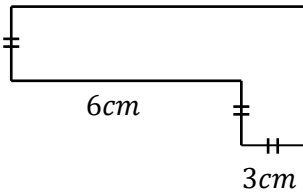
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Part – I

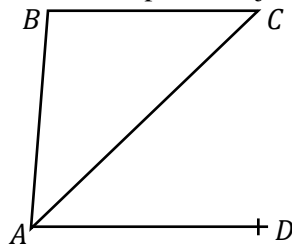
❖ Answer all questions

01) Write down the next two terms of the number pattern 5, 9, 13,,

02) Find the perimeter of the given figure



03) Name a pair of adjacent angle.

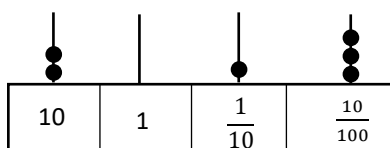


04) Convert 0.07 to percentage.

05) Simplify : $15l\ 36ml \div 12$

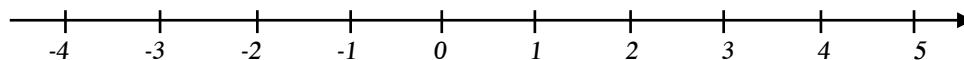
06) If the area of a square is $100m^2$, find its perimeter.

07) Give the number in the abacus in words.



08) Factorize $4x^2y - 12xy^2 + 16xy$

09) Find the value of $(-3) - (-1)$ by using the given number line.

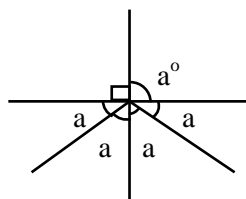


10) Simplify $3x - 3(x + 2y) - 8y$

11) Give 8.075 t , in metric ton and kilogram.

12) Find the value $(-2)^2 \times (3)^2$

13)



Calculate the value of a in the given figure.

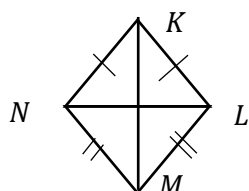
14) Find the value of $(+10) \times 0$

15) If the perimeter of the square of square base cuboid is 20cm and volume of that cuboid is 150cm^3 , what is the height of the cuboid?

16) In which decade Year 2000 belongs to?

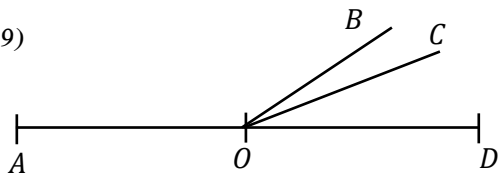
17) Find the value of $\sqrt{2 \times 22 \times 11}$

18)



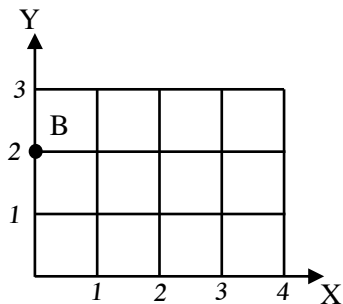
Name the isosceles triangles by observing the quadrilateral KLMN

19)



AOD is a straight line. Name the supplementary angle of $\angle AOB$

20)



In the given Cartesian plane.

I) Mark the point $A = (2, 2)$

II) Write the coordinates of B

(2 x 20 = 40 marks)

Part – II

❖ Answer any 5 questions

1)

a) In the number pattern 7, 9, 11,

I. What is the common difference.

II. Write the general term

III. Find the 12th term

IV. Which term is 45 in this pattern.

(1 + 2 + 2 + 3 = 08 marks)

b)

I. Find 5th and 6th triangular numbers and write their sum.

II. Which square number is obtained in (I).

(3 + 1 = 04 marks)

2)

a) Write the shape of a face of the following solids.

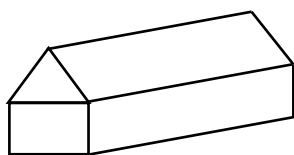
I. Regular octahedron :

II. Regular dodecahedron :

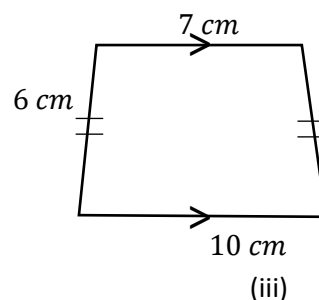
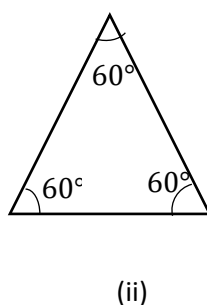
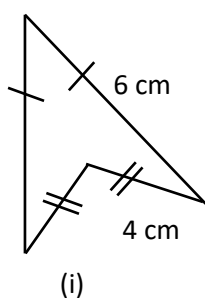
III. Regular icosahedron :

(3 x 1 = 03 marks)

- b) A solid constructed by joining a prism and cuboid is shown in the figure. Verify Euler's relationship of this solid by considering the number of faces, vertices and edges.



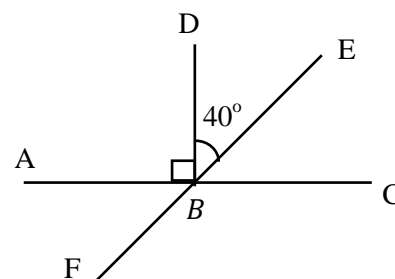
- c) Identify and write the name of the following figures by using the given data. Find their perimeter



(2 x 3 = 6 marks)

- 3) a) AC and AF are straight lines. Fill the following Table by using the given figure.

| Name of the angle | Type | Magnitude |
|-------------------|------|-----------|
| 1. $\angle ABD$ | | |
| 2. $\angle EBC$ | | |
| 3. $\angle ABE$ | | |
| 4. $\angle ABF$ | | |



(8 x 1 = 8 marks)

b)

I. Write $(2x)^3 \times y^3$ as power of product

II. If $x = (-1), y = 2$, find the value of above expression.

(1 + 3 = 4 marks)

4)

a. Fill in the blanks by using the symbols $>, <$

i. $6 \dots\dots\dots (-4)$

ii. $(-8) \dots\dots\dots (-2\frac{1}{2})$

(1 + 1 = 02 marks)

b. Write the following in ascending order

$$-4, 0, -3\frac{1}{2}, 4, -2$$

(1 marks)

c. Simplify

i. $(+3) - (+4)$

ii. $(+4) - (-2)$

(2 + 2 = 04 marks)

d. Fill in the box

i. $\frac{20}{\square} = (-4)$

ii. $\frac{\square \times (-2)}{2} = +4$

(1 + 1 = marks)

e. Find the value of $\sqrt{2\frac{1}{4}}$

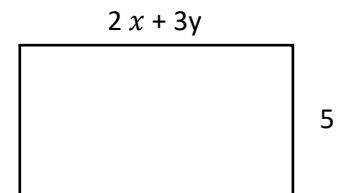
(3 marks)

5) a) In the given rectangle

i. Find the perimeter

ii. Find the area

iii. If $x=4$, $y=3$, find the area



(2 + 2 + 2 = 06 marks)

b)

i. Find the H.C.F of $6mn$, $18mn$, $15my$

ii. Write the following algebraic expression as product of two factors such that one factor should be a negative

$$-8x + 24xy - 16$$

iii. Write the following algebraic expression as product of two factors.

$$2a + 4ab + 8c$$

(2 + 2 + 2 = marks)

6)

a) Write the suitable unit for the following mass

- i. mass of lift with loads :
- ii. mass of sack of flour :
- iii. mass of packet of biscuit :
- iv. mass of a paracetamol tablet :

(4 x 1 = 04 marks)

b) Give 2012kg in metric ton

(2 marks)

c) Simplify.

i. $12\text{t } 254\text{kg} + 5\text{t } 746\text{kg}$

ii. $60\text{t } 40\text{kg} - 36\text{t } 140\text{kg}$

iii. $5\text{t } 24\text{kg} \times 13$

(2 x 3 marks)



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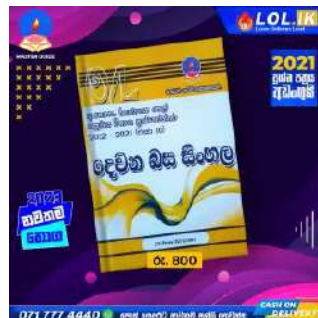
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