

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

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



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

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.

b)

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

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

2)

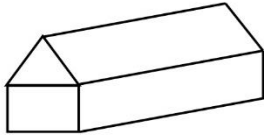
a) Write the shape of a face of the following solids.

I. Regular octahedron :

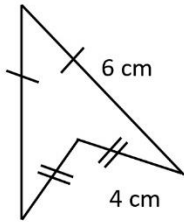
II. Regular dodecahedron :

III. Regular icosahedron :

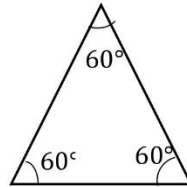
b) A solid constructed by joining a prism and cuboid is shown in the figure. Verify Euler's relationship of this solid by considering the number of faces, vertices and edges.



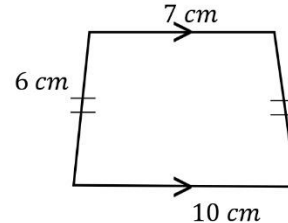
c) Identify and write the name of the following figures by using the given data. Find their perimeter



(i)



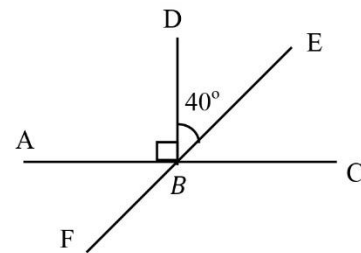
(ii)



(iii)

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

Name of the angle	Type	Magnitude
1. $\hat{A}BD$		
2. $\hat{E}BC$		
3. $\hat{A}BE$		
4. $\hat{A}BF$		



b)

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

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

4)

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

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

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

b. Write the following in ascending order

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

c. Simplify

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

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

d. Fill in the box

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

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

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

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