



CREST Mathematics Olympiad (CMO) Worksheet *for*

Class 4



Topic

Perimeter of Various Shapes



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Worksheet on Perimeter of Various Shapes

1. What are the lengths of the sides of an equilateral triangular flower orchard whose perimeter is 105 metres?

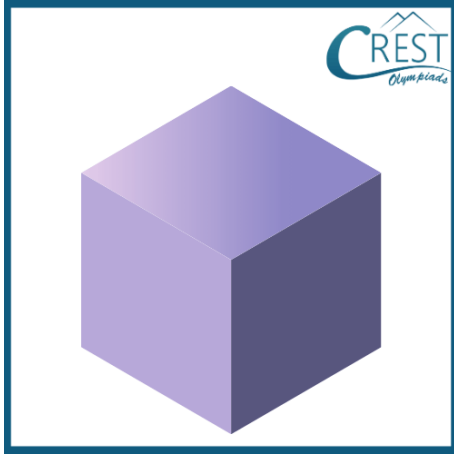


- a. 25 m
b. 35 m
c. 45 m
d. 55 m
2. How long should the border be to frame a photo that measures 19 cm in length and 14 cm in width?



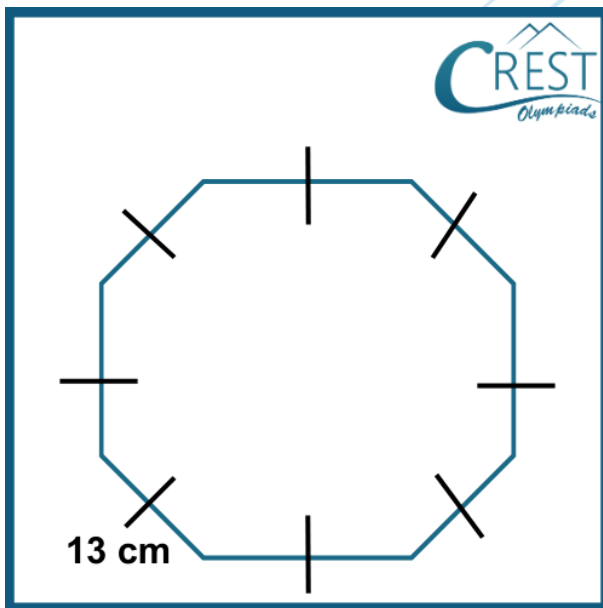
- a. 33 cm
b. 44 cm
c. 66 cm
d. 88 cm

3. What is the length of each side if the perimeter of each face of a cube is 30 cm?



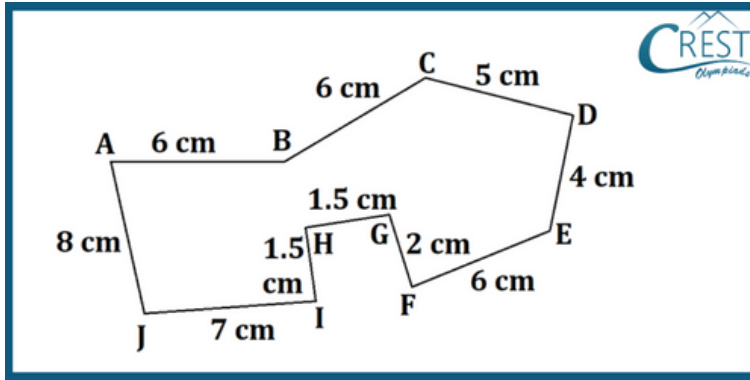
- a. 2.5 cm
- b. 5.5 cm
- c. 7.5 cm
- d. 9.5 cm

4. One side of a regular octagon is 13 cm. What is its perimeter?



- a. 84 cm
- b. 94 cm
- c. 104 cm
- d. 114 cm

5. Find the perimeter of the figure given below.



- a. 43 cm
- b. 47 cm
- c. 51 cm
- d. 57 cm

Answer Key

1. b - 35 m

Explanation: Perimeter of flower orchard = 105 m
Each side of an equilateral triangle is equal.
Therefore, the perimeter is equally divided among all three sides.
Length of each side of an equilateral orchard = $105 \div 3$
 $= 35$ m

2. c - 66 cm

Explanation: Length of print photo = 19 cm
Breadth of print photo = 14 cm
Perimeter of photo frame = $2 (\text{length} + \text{breadth})$
 $= 2 \times (19 + 14)$
 $= 2 \times 33$
 $= 66$ cm

3. c - 7.5 cm

Explanation: We know that each face of a cube is a square.
So, perimeter of each face of a cube = Perimeter of square = 30 cm
Each side of a square is equal. Therefore, the perimeter of a square is equally divided among all four sides.
Length of each side = $30 \div 4$
 $= 7.5$ cm

4. c - 104 cm

Explanation: Perimeter of the regular octagon = Sum of length of all sides
 $= 13 + 13 + 13 + 13 + 13 + 13 + 13 + 13$
 $= 104 \text{ cm}$

OR

Perimeter of the regular octagon = $8 \times (\text{length of each side})$
 $= 8 \times (13)$
 $= 104 \text{ cm}$

5. b - 47 cm

Explanation: Perimeter of the given figure = Sum of all lengths of sides
 $= 6 + 6 + 5 + 4 + 6 + 2 + 1.5 + 1.5 + 7 + 8$
 $= 47 \text{ cm}$

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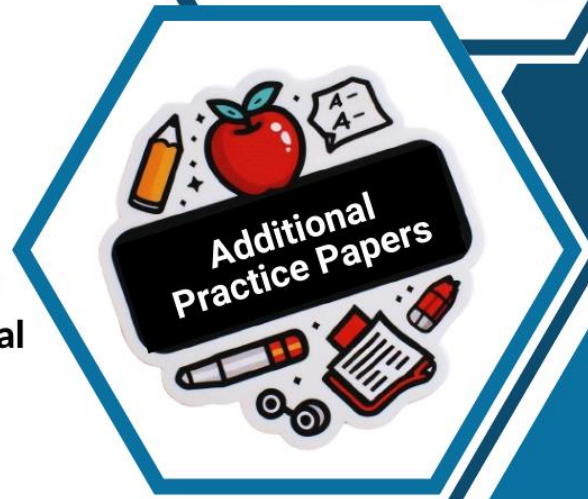
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