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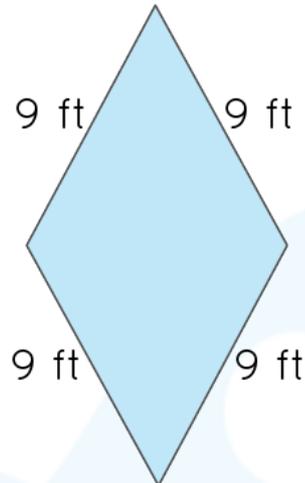
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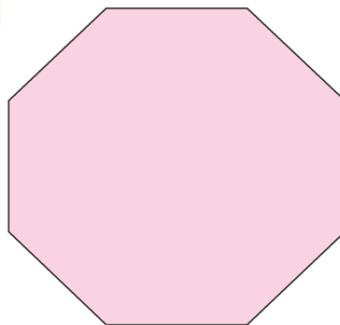
## POLYGONS WORKSHEET III

1) Find the perimeter of the given figure:



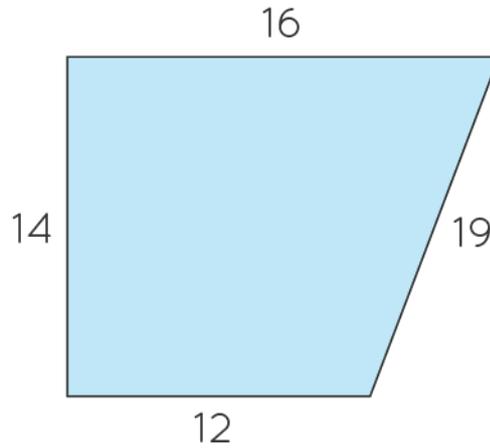
2) Find the length of the sides of a heptagon if the perimeter of the heptagon is 28 units and all sides of the heptagon are of same length.

3) If the perimeter of an octagon is 96 in. Each side of the octagon is of the same length. What is the length of one side of the octagon and the area of the octagon?



4) Find the area of the right-angled isosceles triangle having equal sides 5 m each.

5) Find the perimeter of the given shape:



6) The perimeter of a rectangular land is 260 in. If the width of the land is 30 in. Find the length of the land.

7) If the length and width of a rectangle is tripled, then the perimeter of the rectangle will be \_\_\_\_\_.

8) Match the following:

Shapes	Perimeter
a) Square with side length 10 in	i) 35 in
b) Rectangle with length 8 in and breadth 4 in	ii) 40 in
c) Triangle with side lengths 10m, 17m and 8m	iii) 24 in
d) Regular pentagon with side 4.5m	iv) 22.5 in

9) If the perimeter of an equilateral triangular box is 30 in. Find the area of the box.

10) Perimeter of a rectangle is given by:

- a)  $2(\text{length} \times \text{breadth})$
- b)  $\text{side} \times \text{side}$
- c)  $4 \times \text{side}$
- d)  $2(\text{length} + \text{breadth})$

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## Why choose Cuemath?

"Cuemath is a valuable addition to our family. We love solving puzzle cards. My daughter is now visualizing maths and solving problems effectively!"

- Gary Schwartz

"Cuemath is great because my son has a one-on-one interaction with the teacher. The instructor has developed his confidence and I can see progress in his work. One-on-one interaction is perfect and a great bonus."

- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

- Barbara Cabrera

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**ANSWERS**

1)	36 ft
2)	4
3)	12 in, area = 44498.78 sq. in
4)	17.67 sq. m
5)	61
6)	100 in
7)	Tripled
8)	a) ii b) iii) c) i) d) iv)
9)	389.71 sq. in
10)	d

## FUN FACT

1. The length and width of a rectangle are called its dimensions.
2. Circumference is the other name for perimeter of a circle.
3. Different rectangles may have same areas but different perimeters. Try finding the areas and perimeters of rectangles with dimensions  $20 \times 20$  and  $40 \times 10$ .

