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## Area of Polygons Worksheet II

1) Area is defined as a covering of a space.

- a. True
- b. False

2) Formula for the area of a Square is \_\_\_\_\_.

3) Which formula is for finding the area of an equilateral triangle?

- a.  $A = \text{length} \times \text{width}$
- b.  $A = \text{base} \times \text{height}$
- c.  $A = \frac{1}{2} \text{ base} \times \text{height}$
- d.  $A = \frac{\sqrt{3}}{4} \text{ side}^2$

4) Match the following

- |  |   |
|--|---|
| a. the area of an equilateral triangle | p- $\frac{5}{2} \times \text{side} \times \text{apothem}$   |
| b. the area of a pentagon              | q- $\text{base} \times \text{height}$                       |
| c. the area of a trapezoid             | r- $\frac{\sqrt{3}}{4} \text{ side}^2$                      |
| d. the area of a parallelogram         | s- $\frac{1}{2} \text{ height} (\text{base} + \text{base})$ |

5) If the area of an equilateral triangular sheet is  $\frac{\sqrt{3}}{4} \text{ side}^2$ . What is the area of an equilateral triangular sheet with a base of 6 units?

6) Length is 14 units and height is 10 units of a parallelogram. Find its area.

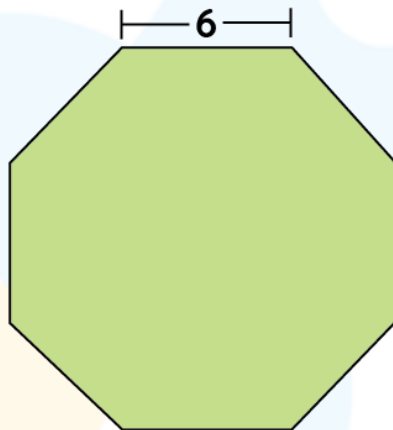
7) If the area of the rectangular board is 156 sq. inches and the length of the board is 13 inches, how wide is this board?

8) A Square shape park has an area of 810000 sq. m. What is the length of a side of a park?

9) The sum of two parallel lengths of a trapezoid PQRS is 14 units and the height of the trapezoid is 10 units. What is the area of trapezoid PQRS?



10) Find the area of a given polygon.



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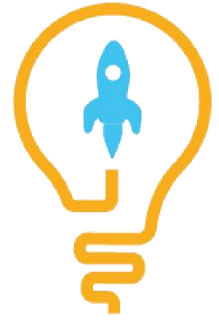
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"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

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**ANSWERS**

1. b. False	2. $\text{side}^2$	3. d.	4. a.- r b.- p c.- s d.- q	5. $9\sqrt{3}$ sq. units
6. 140 sq. units	7. 12 in	8. 900m	9. 70 sq. units.	10. 93.53 sq. in

## FUN FACT

1. The area of any regular polygon is equal to half of the product of the perimeter of a base and its apothem.
2. Area of any polygon is measured in square units.
3. Different rectangles may have the same areas but different perimeters. Try finding the areas and perimeters of rectangles with dimensions  $20 \times 20$  and  $40 \times 10$ .

