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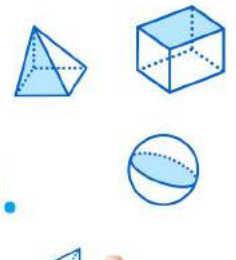

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# Area of Polygons Worksheet III

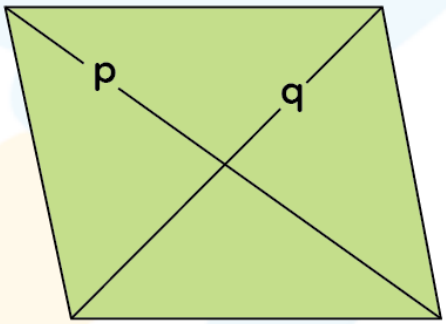
1) Formula for the area of the pentagon is_____.
2) The area of the square is 102 sq. in. One side is 11in.

a. True
b. False

3) Which formula is for finding the area of a hexagon?

a. A = length × width
b. A = base × height
c. A = ½ base × height
d. A = $3\sqrt{3}/2$ $side^2$

4) Formula for the area of a given rhombus is_____




5) The area of a triangle is ½ base × height, what is the area of a triangle with a height of 15 inches and a base of 6 inches?

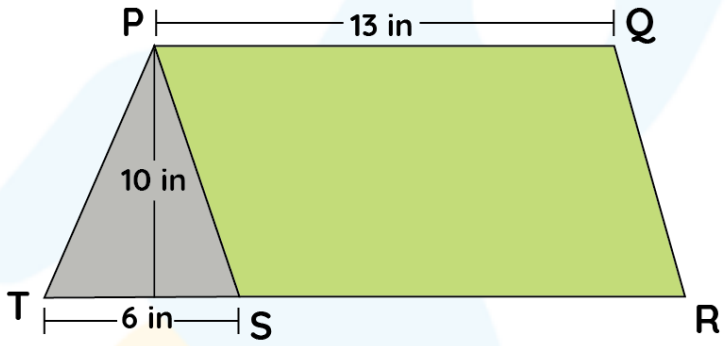
6) The area of a parallelogram is its base multiplied by its height, what is the height of a parallelogram with an area of 96 sq. units and a base of 12 units?

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) Determine the area of a triangle with a height of 15 inches and a hypotenuse of 17 inches?

9) The sum of two parallel lengths of a trapezoid ABCD is 16 m and the area of the trapezoid is 80 sq m. What is the height of trapezoid ABCD?

10) Find the area of a given combined figure.
Where PQRS is a parallelogram and PST is a triangle.



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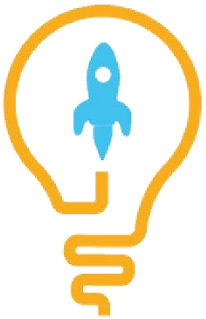

## ANSWERS

| | | | | |
|---|---|---|---|---|
| 1. 5/2 × side × apothem | 2. False | 3. d. | 4. p×q/2 | 5. 45 sq. inches |
| 6. 8 units | 7. 12 in | 8. 60 sq. inches | 9. 10 m | 10. 160 sq. in |

## FUN FACT

1. Area of any polygon is measured in square units.

2. Different rectangles may have the same areas but different perimeters. Try finding the areas and perimeters of rectangles with dimensions 20x20 and 40x 10.

3. The area of any regular polygon is equal to half of the product of the perimeter of a base and its apothem.