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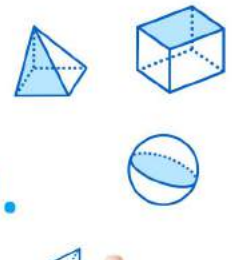

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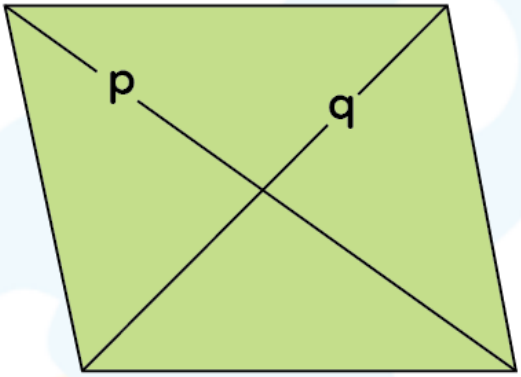
Area of Polygons Worksheet IV

1) Formula for area of the pentagon is 5/2 side^2
a. True
b. False

2) The area of the square is 121 sq. in. Determine its side length.

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

4) Find the area of a given rhombus if p=10in and q =12 in.



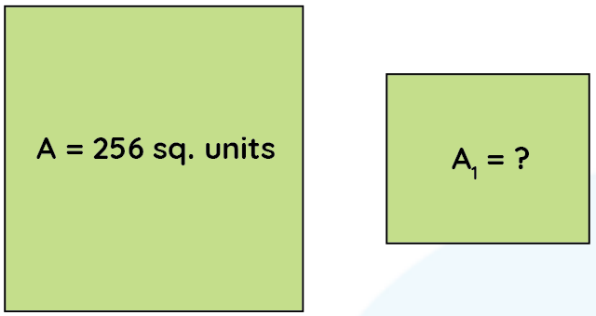
5) Determine the area of a right triangle with a height of 15 inches and a base of 12 inches?

6) Determine the base of a parallelogram with an area of 196 sq. in and a height of 14 in?

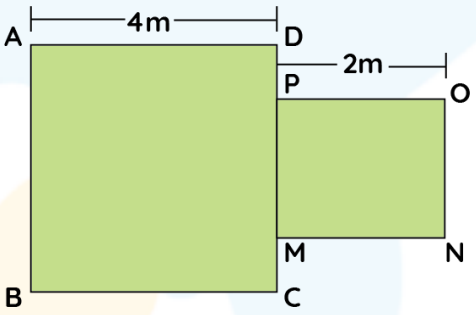
7) If the area of a rhombus sheet is 91 sq. inches and its one diagonal is 13 inches, find the length of another diagonal?

8) Determine the area of a pentagon with an apothem of 15 inches and a side of 8 inches?

9) A square has an area of 256 square units. If a new smaller square is made. The new square has all the sides decreased to half of the given square's original length. What is the area of the new square?



10) Find the area of a given combined figure.
Where ABCD and PMNO are the squares.



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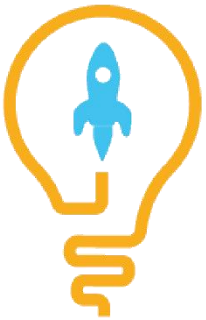

ANSWERS

1. False	2. 11 in.	3. $3\sqrt{3}/2$ side^2	4. 60 sq. inches	5. 90 sq. inches
6. 14 in	7. 14 in	8. 300 sq. inches	9. 64 sq. units	10. 20 sq. in

FUN FACT

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

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

3. Area is measured in square units.