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Area of Polygons Worksheet I

1) What is the formula for the area of a 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. $A = \frac{1}{2} \text{ height} (\text{base} + \text{base})$

2) Formula for the area of a rectangle is _____.

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

- e. $A = \text{length} \times \text{width}$
- f. $A = \text{base} \times \text{height}$
- g. $A = \frac{1}{2} \text{ base} \times \text{height}$
- h. $A = \frac{1}{2} \text{ height} (\text{base} + \text{base})$

4) Match the following

- | | |
|----------------------------|---------------------------------------|
| a. the area of a triangle | p-length \times width |
| b. the area of a rectangle | q-base \times height |
| c. the area of a trapezoid | r- $\frac{1}{2}$ base \times height |
| d. area of a parallelogram | s- $\frac{1}{2}$ height (base + base) |

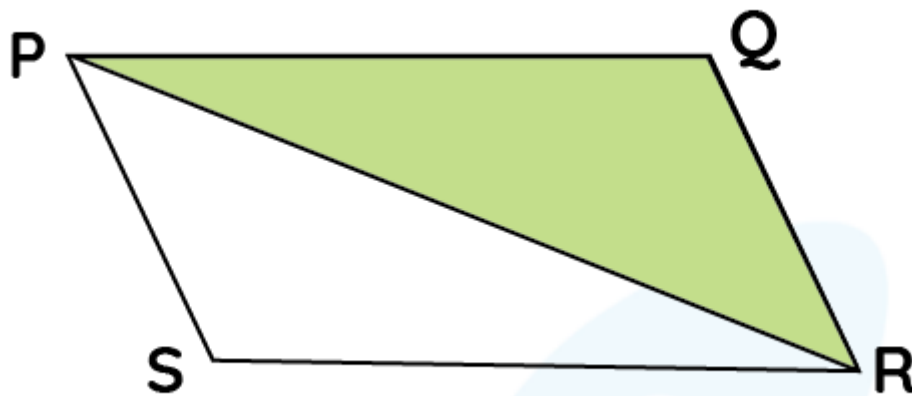
5) If the area of a triangular sheet is $\frac{1}{2} \text{ base} \times \text{height}$. What is the area of a triangular sheet with a height of 6 units and a base of 5 units?

6) Length is 4 units and width is 5 units of a rectangle. Find its area.

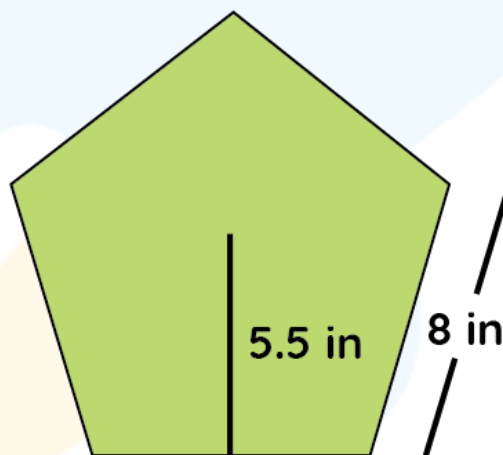
7) If the area of the square board is 144 sq. inches and the length is 12 inches, how wide is this square?

8) A rectangular board has an area of 72 sq. m and a width of 6 m. How long is the board?

9) The length of a parallelogram PQRS is 14 units and the height of the parallelogram is 10 units. What is the area of triangle QPR?



10) Find the area of a given polygon.



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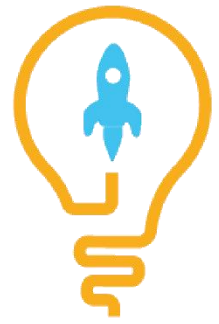
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**ANSWERS**

1. c.	2. b.	3. d.	4. a.- r b.- p c.- s d.- q	5. 15 sq. units
6. 20 sq. units	7. 12 in	8. 12m	9. 70 sq. units.	10. 110 sq. in

FUN FACT

1. Area is measured in square units whereas Perimeter is measured in units of length.
2. Two squares having the same area will have the same perimeter as well.
3. Two rectangles with the same area may have different perimeters.

