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Area of Trapezoid Worksheet II

Q.1 Sum of parallel sides of a trapezoid is 12 inches. If its height is 4 inches. Its area is _____

Q.2 Match the following:

- | | |
|-------------|----------------------|
| a-Trapezoid | p - $b \times h / 2$ |
| b-Rectangle | q - $a \times b$ |
| c-Square | r - a^2 |
| d-Triangle | s - $(a+b)h / 2$ |

Q.3 In which of the following options the sum of parallel sides should be given to calculate its area.

- a) Rectangle
- b) Triangle
- c) Trapezoid
- d) Parallelogram

Q.4 In which of the following figures altitude should be given to calculate its area.

- a) Parallelogram
- b) Triangle
- c) Trapezoid
- d) All of the above

Q.5 A property dealer buys a plot of 450 sq foot area. The plot is in the shape of a trapezoid. If the sum of its two parallel sides is 90 feet. Distance between its parallel sides is:

- a. 10 feet
- b. 12 feet
- c. 14 feet
- d. 16 feet



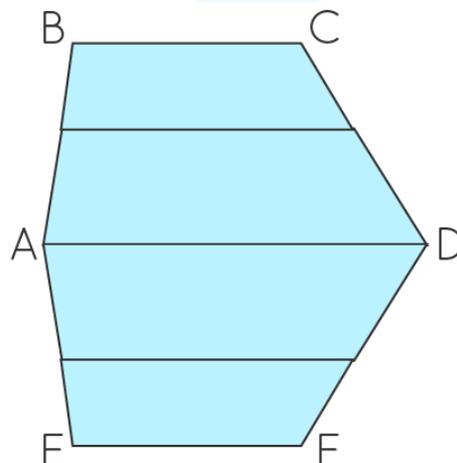
Q.6 Area of a trapezoid is 16 sq inch. If its height is 8 inch. Sum of its parallel sides is_____.

Q.7 Find the area of a trapezoid whose dimensions are as: $a = 18$ units, $b = 15$ units, and $h = 20$ units.

Q.8 Area of a trapezoid having its two parallel sides as 4 inches and 9 inches respectively. The distance between them is 6 inches. Its area is

- a. 30 sq inch
- b. 39 sq inch
- c. 50 sq inch
- d. 55 sq inch

Q.9 Area of trapezoid ABCD and area of trapezoid ADEF are equal. The Sum of parallel sides of a trapezoid ABCD is 12 inches and the distance between BC and EF is 16 inches, find the area of trapezoid ADEF.



Q.10 If the height of a trapezoid is one-third of its area, and its area is 660sq. units. Find the sum of parallel sides of a trapezoid.

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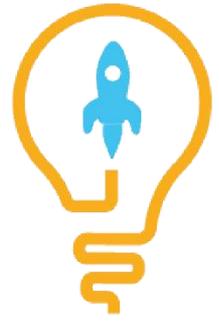
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**ANSWERS**

1. 24 sq. inch	2. a-s b-q c-r d-p	3. c) Trapezoid	4. d)All of the above	5. a)10 feet
6. 4inches.	7. 330 sq. units	8. 39 sq inch	9. 48 sq. in	10. 6 units

FUN FACT

1. A right trapezoid is a type of trapezoid that has a pair of right angles.
2. Isosceles trapezoid is a type of trapezoid that has an equal length of non-parallel sides.
3. A scalene trapezoid is a type of trapezoid that has neither equal angles nor has equal sides.

