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For Grades 1 - 10

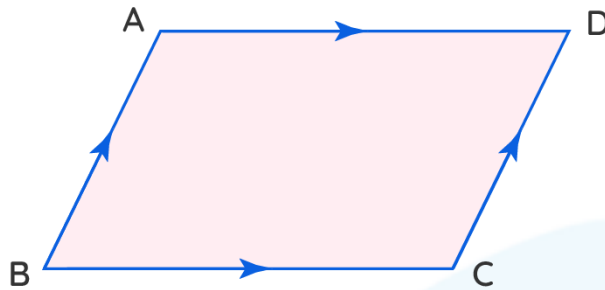LIVE online classes by trained and certified experts.

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AREA OF SHAPES WORKSHEETS

1. The height of an equilateral triangle is $4\sqrt{3}$ units. Find the length of the side and the area of the equilateral triangle.

2. The right angles triangle has an altitude which is 3 units more than the base, and an area of 20 square units. The base of the right angled triangle is _____.

3. A right angled triangle has an area of 60 square units, and has a base of 12 units. Find the measure of the altitude of the right angled triangle.
   (a) 4 units   (b) 6units   (c) 9units   (d) 10units

4. The cost of painting is $25 per square feet, and the dimensions of a rectangular wall is 10 feet by 12 feet. Find the cost of painting two walls of this size.

5. The area of a circle having a diameter of 21 units is _____.

6. The radius of a circle is 10 units. Find the area of the semi-circle.

7. What is the diagonal of a square having an area of 32 square units?
   (a) 6units   (b) 7 units   (c) 8 units   (d) 9 units

8. The area of a rectangle is 24 square units and its length is 2 less than double the breadth. Find the length and the breadth of the rectangle.

9. Find the area of a rectangle having the diagonals of measure 8 units and 10 units respectively.

10.   The area of a parallelogram is 40 square units and its base is 16 units. What is the measure of the height of this parallelogram?

When you learn math in an interesting way, you never forget.

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Why choose Cuemath?

"Cuemath is a valuable addition to our family. We love solving puzzle cards. My daughter is now visualizing maths and solving problems effectively!"

- Gary Schwartz

"Cuemath is great because my son has a one-on-one interaction with the teacher. The instructor has developed his confidence and I can see progress in his work. One-on-one interaction is perfect and a great bonus."

- Kirk Riley

"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."

- Barbara Cabrera

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ANSWERS

1)	8 units, $64\sqrt{3}$ square units
2)	5 units
3)	(d) 10 units
4)	$6000
5)	$121.25\,\pi$ square units
6)	$50\,\pi$ square units

1. Regular geometric shapes areas can be found with a formulae and the areas of irregular geometric shapes can be found with the use of integration. Integration breaks down the irregular shapes into smaller areas and then finds the areas.
2. Generally the shape of square, rectangles are slightly deformed to create the rhombus or a parallelogram.