

AREA FORMULA FOR QUADRILATERALS

A polygon with a total of four edges and sides is referred to as a quadrilateral. Quadrilaterals come in a variety of shapes like squares, rectangles, parallelograms, and trapeziums. Each of these different kinds of quadrilaterals has unique properties that are specific to them.

[Read more](#)



Q1: What formula is used to compute the area of a quadrilateral?

A: $A = s^2$

B: $A = 0.5 * a * b * \sin(\theta)$

C: $A = 0.5 * d1 * d2 * \sin(\theta)$

D: $A = \pi * r^2$

Q2: In the quadrilateral area formula $A = 0.5 * d1 * d2 * \sin(\theta)$, what do 'd1' and 'd2' represent?

A: Both are side lengths

B: 'd1' is the diagonal length, and 'd2' is the side length

C: 'd1' is one diagonal length, and 'd2' is the other diagonal length

D: Both are angle measurements

Q3: If a quadrilateral has an area of 72 square units and one diagonal is 12 units while the included angle is 45 degrees, what is the length of the other diagonal?

A: 10

B: 20

C: 16

D: 24

Q4: What do you call a quadrilateral?

A: A polygon with four sides

B: A polygon with three sides

C: A polygon with ten sides

D: A polygon with six sides

Q5: The interior angles in a quadrilateral sum up to:

A: 180 degrees

B: 360 degrees

C: 120 degrees

D: 270 degrees

Q6: The opposite sides in a parallelogram are:

- A: Perpendicular
 - B: Intersecting
 - C: Non-parallel
 - D: Parallel
-

Q7: In a rectangle, opposite sides are:

- A: Equal in length
 - B: Unequal in length
 - C: Complementary
 - D: None of the above
-

Q8: The area of a square is represented as:

- A: $\frac{1}{2} * b * h$
 - B: s^2
 - C: $b * h$
 - D: s^4
-

Q9: The trapezoid area can be found using:

- A: $b_1 * b_2$
 - B: $b_1 + b_2 / 2 * h$
 - C: $\frac{1}{2} * b_1 * b_2$
 - D: $B_1 * b_2$
-

Q10: The rectangle area can be found using:

- A: $l * b$
 - B: $\frac{1}{2} * l * b$
 - C: $l+b/2$
 - D: $2l * 2b$
-



Answers

Q1: C - $A = 0.5 * d1 * d2 * \sin(\theta)$

Q2: C - 'd1' is one diagonal length, and 'd2' is the other diagonal length

Q3: C - 16

Q4: A - A polygon with four sides

Q5: B - 360 degrees

Q6: D - Parallel

Q7: A - Equal in length

Q8: B - s^2

Q9: B - $b1 + b2 / 2 * h$

Q10: A - $l * b$