

AREA OF ISOSCELES TRIANGLE

A triangle which has two sides equal in length and the third side with a different length is called an isosceles triangle. The angles opposite the two equal sides are also equal, or congruent.

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Q1: What is the formula for calculating the area of an isosceles triangle?

- A: $A = 2 * b * h$
 - B: $A = (1/2) * b * h$
 - C: $A = a^2$
 - D: $A = 4 * s$
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Q2: If the area of an isosceles triangle is 36 square units, and the base is 12 units, what is the height?

- A: 2 units
 - B: 3 units
 - C: 4 units
 - D: 6 units
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Q3: In the isosceles triangle area formula $A = (1/2) * b * h$, what do 'b' and 'h' represent?

- A: Both are side lengths
 - B: 'b': base length, 'h': height
 - C: 'b' is the height, and 'h' is the base length
 - D: Both are angle measurements
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Q4: What is an isosceles triangle?

- A: A triangle with two equal sides
 - B: A triangle with all sides as equal
 - C: A triangle that has all sides different in length
 - D: A triangle with three different measures of angles
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Q5: What is not a property of an isosceles triangle?

- A: At least two sides are equal
 - B: The triangle has an axis of symmetry along the altitude
 - C: Two angles of the triangle are equal
 - D: Two sides of the triangle are different in length
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Q6: The areas of an equilateral triangle are:

- A: $\frac{1}{2} * b * h$
 - B: $b * h$
 - C: $\frac{\sqrt{3}}{4} * s^2$
 - D: $\frac{1}{2} * \frac{\sqrt{3}}{4} * s^2$
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Q7: The sum of all the angles in an isosceles triangle is:

- A: 180 degrees
 - B: 360 degrees
 - C: 90 degrees
 - D: 120 degree
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Q8: If the height of an isosceles triangle is 7 cm and the base is 2 cm. What will be the area?

- A: 16 cm^2
 - B: 24 cm^2
 - C: 7 cm^2
 - D: 5 cm^2
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Q9: The line that divides an isosceles triangle into two congruent right triangles is known as:

- A: Perpendicular
 - B: Diagonal
 - C: Median
 - D: Altitude
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Q10: What is known as the base of an isosceles triangle?

- A: The unequal side in the triangle
 - B: One among the two equal sides of the triangle
 - C: The distance from the vertex to the corresponding side of the triangle
 - D: The perpendicular bisector of the triangle
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Answers

Q1: $B - A = (1/2) * b * h$

Q2: D - 6 units

Q3: B - 'b': base length, 'h': height

Q4: A - A triangle with two equal sides

Q5: D - Two sides of the triangle are different in length

Q6: C - $\sqrt{3}/4 * s^2$

Q7: A - 180 degrees

Q8: C - 7 cm^2

Q9: D - Altitude

Q10: A - The unequal side in the triangle