

# 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:  $16 \text{ cm}^2$
  - B:  $24 \text{ cm}^2$
  - C:  $7 \text{ cm}^2$
  - D:  $5 \text{ cm}^2$
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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

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**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 -  $7 \text{ cm}^2$

**Q9:** D - Altitude

**Q10:** A - The unequal side in the triangle