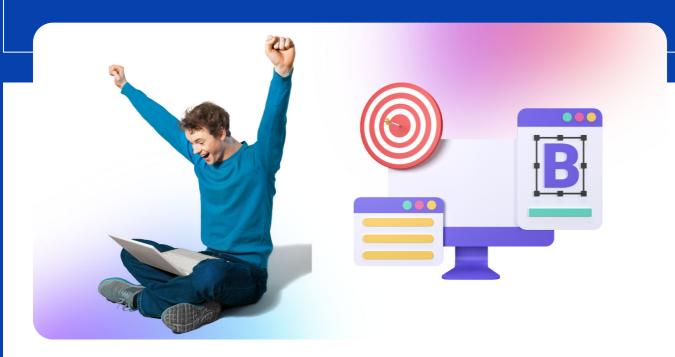


AREA OF ISOSCELES TRIANGLE

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

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

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

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

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



Q6: The areas of an equilateral triangle are:

A: ½ * b * h

B: b * h

C: √3/4 * s^2

D: ½ * √3/4 * s^2

Q7: The sum of all the angles in an isosceles triangle is:

A: 180 degrees

B: 360 degrees

C: 90 degrees

D: 120 degree

Q8: If the height of an isosceles triangle is 7 cm and the base is 2 cm. What will be the area?

A: 16 cm²

B: 24 cm²

C: 7 cm²

D: 5 cm²

Q9: The line that divides an isosceles triangle into two congruent right triangles is known as:

A: Perpendicular

B: Diagonal

C: Median

D: Altitude

Q10: What is known as the base of an isosceles triangle?

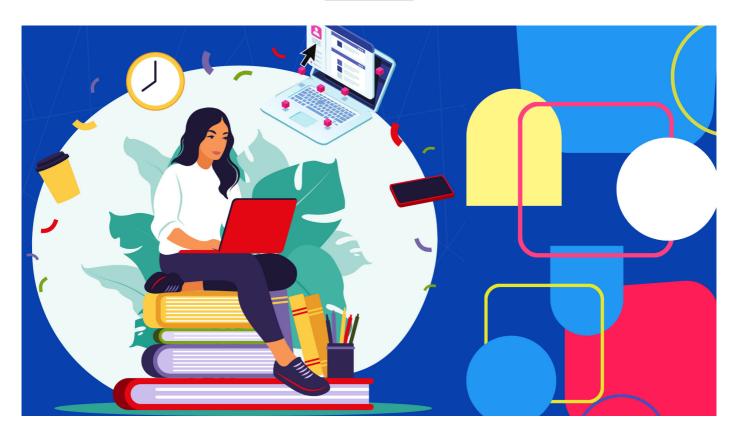
A: The unequal side in the triangle

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





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 - √3/4 * s^2

Q7: A - 180 degrees

Q8: C - 7 cm²

Q9: D - Altitude

Q10: A - The unequal side in the triangle