Edulyte

TRIANGLES

Triangles are the architects of the geometric world, subtly shaping the landscapes of mathematics and reality. With their three sides and three angles, triangles are the elementary building blocks of shapes. Let us find out how they can help you in geometry with the help of this blog created by Edulyte's Maths experts.

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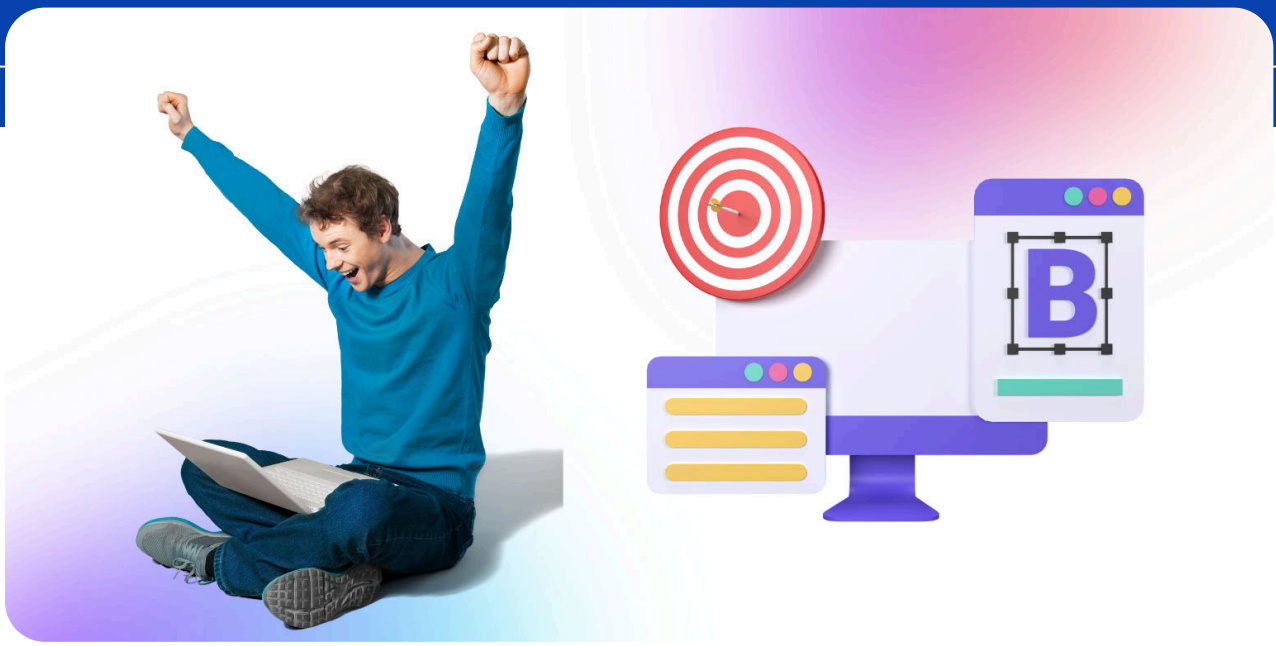

Q1: A triangle with all sides of different lengths is known as:

A: Equilateral triangle
B: Isosceles triangle
C: Scalene triangle
D: Right-angled triangle

Q2: What is the name of a triangle with one angle measuring more than 90 degrees?

A: Acute triangle
B: Obtuse triangle
C: Right triangle
D: Scalene triangle

Q3: The area of a triangle with a base of 8 units and height of 6 units is:

A: 14 sq. units
B: 24 sq. units
C: 20 sq. units
D: 48 sq. units

Q4: What is the sum of the interior angles of any triangle?

A: 90 degrees
B: 120 degrees
C: 180 degrees
D: 360 degrees

Q5: In an equilateral triangle, each angle measures:

A: 30 degrees
B: 45 degrees
C: 60 degrees
D: 90 degrees

Q6: What type of triangle has two sides of equal length?

A: Scalene
B: Equilateral
C: Isosceles
D: Right-angled

Q7: Which theorem relates to the square of the hypotenuse in a right-angled triangle?

A: Trigonometric Theorem
B: Pythagorean Theorem
C: Euclidean Theorem
D: Isosceles Theorem

Q8: In a right triangle, the side opposite the right angle is called the:

A: Adjacent side
B: Opposite side
C: Hypotenuse
D: Base

Q9: What is the classification of a triangle with one angle greater than 90 degrees?

A: Acute Triangle
B: Right Triangle
C: Obtuse Triangle
D: Equilateral Triangle

Q10: If two sides of a triangle are 5 cm and 12 cm, what is the length of the third side if it is a right-angled triangle?

A: 10 cm
B: 13 cm
C: 15 cm
D: 17 cm

Answers

Q1: C - Scalene triangle

Q2: B - Obtuse triangle

Q3: A - 14 sq. units

Q4: C - 180 degrees

Q5: C - 60 degrees

Q6: C - Isosceles

Q7: B - Pythagorean Theorem

Q8: C - Hypotenuse

Q9: C - Obtuse Triangle

Q10: B - 13 cm