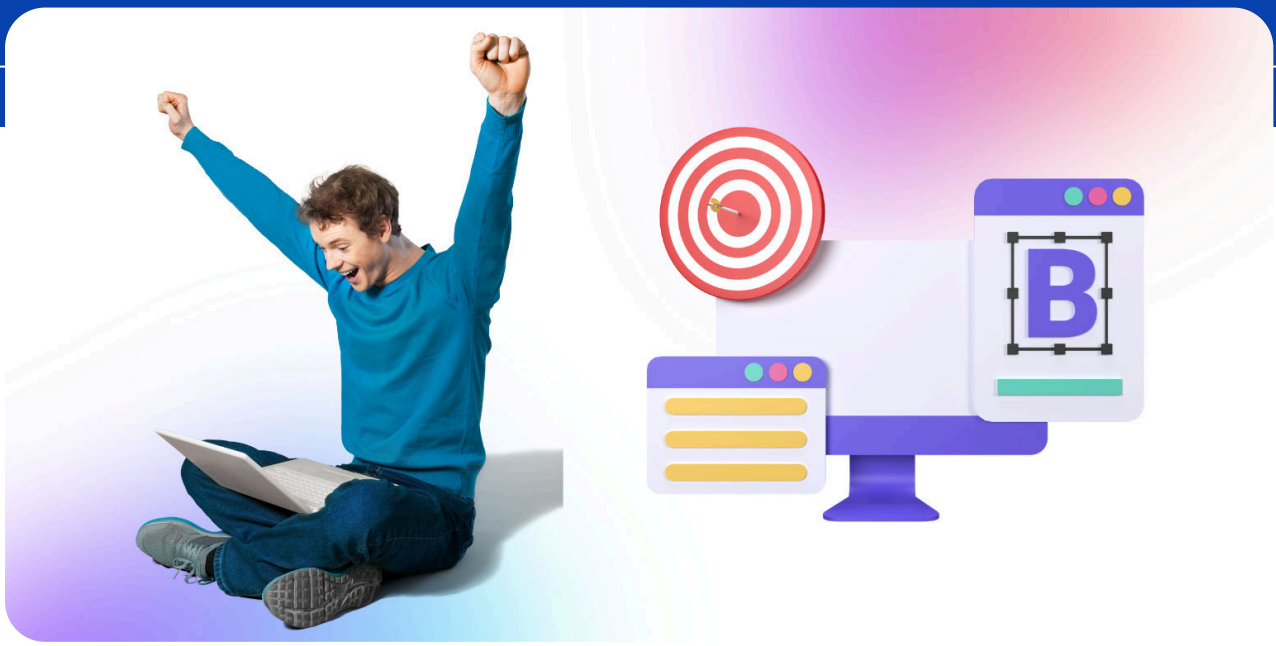
Edulyte

VOLUME OF A CONE

Cones are cool shapes, like ice cream cones or party hats. They're not just fun to look at; they're essential in many things we use every day. One crucial thing we want to know about cones is how much stuff they can hold inside. We call this their "volume."

Read more



Q1: What is the role of 'r' in the volume of a cone formula?

A: Height
B: Volume
C: Radius of the Base
D: Surface Area

Q2: What unit do we use to measure cone volume?

A: Square units
B: Linear units
C: Cubic units
D: Centimeters

Q3: What is the sum of the angles in the base of a cone?

A: 90 degrees
B: 180 degrees
C: 360 degrees
D: 45 degrees

Q4: What is the formula for the surface area of a cone?

A: SA = πr
B: SA = 2πrh
C: SA = πr^2
D: SA = 1/3$\pi r^2 h$

Q5: In the cone volume formula, what does 'h' represent?

A: Hypotenuse
B: Hemisphere
C: Height
D: Horizontal

Q6: What is the primary measurement for determining the size of the cone's circular base?

A: Circumference
B: Diameter
C: Radius
D: Area

Q7: Which of the following is NOT a type of cone?

A: Right Circular Cone
B: Oblique Cone
C: Rectangular Cone
D: Elliptical Cone

Q8: If the radius of a cone is doubled, how does it affect the volume?

A: Doubles
B: Quadruples
C: Halves
D: Remains the same

Q9: What geometric shape forms when you cut a cone parallel to its base?

A: Circle
B: Ellipse
C: Triangle
D: Rectangle

Q10: What is the ratio of the volume of a cone to a cylinder with the same base and height?

A: 1:2
B: 1:3
C: 1:4
D: 1:π

Answers

Q1: C - Radius of the Base

Q2: C - Cubic units

Q3: B - 180 degrees

Q4: A - SA = πr

Q5: C - Height

Q6: C - Radius

Q7: C - Rectangular Cone

Q8: B - Quadruples

Q9: A - Circle

Q10: D - 1:π