

VOLUME FORMULAS

Understanding the concept of volume in geometry is pivotal. Volume represents the amount of space an object occupies. Knowing a shape's volume formula is essential for comprehending both 2D and 3D shapes.

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Q1: What is the formula for the volume of a cube?

A: V = r²h B: V = 4/3πr³ C: V = s³ D: V = lwh

Q2: Which shape has zero volume?

A: Sphere B: Line segment C: Cone D: Cube

Q3: What is the volume of a rectangular prism with length 5 cm, width 3 cm, and height 2 cm?

A: 30 cm³ B: 15 cm³ C: 10 cm³ D: 6 cm³

Q4: What is the formula for the volume of a cylinder?

A: V = πr²h B: V = lwh C: V = bh D: V = s³

Q5: Which geometric shape is associated with the formula V = $1/3\pi r^2h$?

A: Sphere B: Cone

C: Cylinder

D: Cube



Q6: In the formula V = Iwh, what does each variable represent?

A: length, Width, height B: Radius, Height C: Side length D: Base, height

Q7: What is the volume formula for a pyramid with base area A, and height h?

A: V = Ah B: V = 1/3Ah C: V = A/h D: V = A + h

Q8: For a sphere, what are the relationship between the radius (r) and the volume (V)?

A: V = πr² B: V = 4/3πr³ C: V = 1/3πr²h D: V = lwh

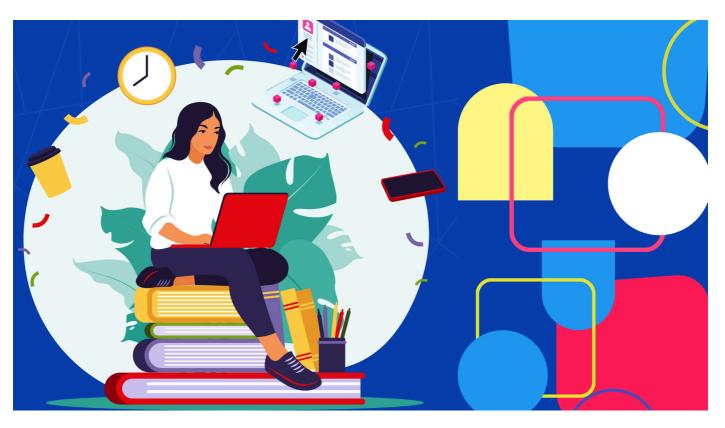
Q9: What is the volume formula for a triangular prism with base area A, and height h?

A: V = Ah B: V = 1/2Ah C: V = A/h D: V = A + h

Q10: In the formula V = s³, what does 's' represent?

A: Surface area B: Slant height C: Side length D: Sum of dimensions





Answers

- **Q1:** C V = S³
- Q2: B Line segment
- Q3: B 15 cm³
- **Q4:** A V = πr²h
- Q5: B Cone
- Q6: A length, Width, height
- **Q7:** B V = 1/3Ah
- **Q8:** B V = 4/3πr³
- **Q9:** B V = 1/2Ah
- Q10: C Side length