

## Volumes of Solids Quiz Answer Key PDF

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**Which unit is commonly used to measure volume?**

- A. Meters
- B. Liters ✓**
- C. Kilograms
- D. Seconds

**Which solid has a volume formula of  $V = \pi r^2 h$ ?**

- A. Cone
- B. Cylinder ✓**
- C. Sphere
- D. Pyramid

**What are the correct units for measuring volume? (Select all that apply)**

- A. Cubic meters ✓**
- B. Square meters
- C. Liters ✓**
- D. Grams

**What is the volume of a sphere with a radius of 3 units?**

- A.  $36\pi$  ✓**
- B.  $27\pi$
- C.  $36\pi$
- D.  $4\pi$

**Which of the following is NOT a unit of volume?**

- A. Cubic meter
- B. Liter
- C. Square meter ✓**
- D. Cubic centimeter

**Which solids have a volume formula that involves  $\pi$ ? (Select all that apply)**

- A. Cube
- B. Cylinder ✓**
- C. Sphere ✓**
- D. Cone ✓**

**Which of the following are necessary to calculate the volume of a cone? (Select all that apply)**

- A. Radius of the base ✓**
- B. Height of the cone ✓**
- C. Slant height
- D. Base area

**Which of the following formulas are used to calculate the volume of a pyramid? (Select all that apply)**

- A.  $V = (1/3) \times \text{Base Area} \times h$  ✓**
- B.  $V = \pi r^2 h$
- C.  $V = (1/3) \pi r^2 h$  ✓**
- D.  $V = l \times w \times h$

**Which of the following solids has a volume formula that includes 1/3?**

- A. Cube
- B. Cylinder
- C. Cone ✓**
- D. Sphere

**Which of the following solids can have their volume calculated using the formula  $V = l \times w \times h$ ? (Select all that apply)**

- A. Cube ✓**

**B. Rectangular Prism ✓**

- C. Sphere
- D. Cylinder

**What is the base area of a rectangular prism with a length of 5 units and a width of 3 units?**

- A. 8 square units
- B. 15 square units ✓**
- C. 10 square units
- D. 18 square units

**Which of the following statements about volume are true? (Select all that apply)**

- A. Volume is measured in square units.
- B. Volume measures the amount of space inside a solid. ✓**
- C. Volume can be calculated for both regular and irregular shapes. ✓**
- D. Volume is the same as surface area.

**What is the formula for the volume of a cube?**

- A.  $V = a^2$
- B.  $V = a^3$  ✓**
- C.  $V = 2a$
- D.  $V = 4a$

**What is the volume of a cylinder with a radius of 2 units and a height of 5 units?**

- A.  $20\pi$
- B.  $10\pi$
- C.  $40\pi$  ✓**
- D.  $30\pi$