



What is the formula for the volume of a prism?

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- A. $V = l \times w + h$
- B. $V = l + w + h$
- C. $V = \pi r^2 h$
- D. $V = BH$

Show Answer...

Correct Answer: D ($V = B \times H$)

Explanation:

A prism is a three-dimensional shape with two parallel and congruent bases that are connected by a set of rectangular faces. The formula for finding the volume of a prism is simply the product of the area of its base and its height.

Any prism volume is $V = BH$ where B is the area of the base and H is the height of the prism

Mathematically:

$$V = l \times w \times h$$

$$V = B \times h$$

where "B" represents the Base of the Prims "V" represents the volume, "l" represents the length, "w" represents the width, and "h" represents the height.

Real-world applications of prisms:

- Buildings
- Packaging materials
- Glasses and lenses



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- Aquarium tanks

Conclusion:

The formula for finding the volume of a prism is simply the product of the area of its base and its height. Mathematically, $V = l \times w \times h$, where “V” represents the volume, “l” represents the length, “w” represents the width, and “h” represents the height. Prisms have numerous real-world applications, such as in construction, packaging materials, glasses, and aquarium tanks.