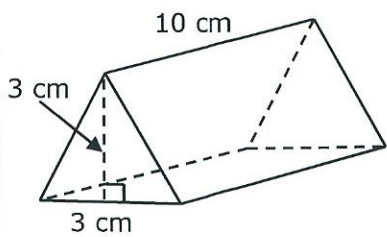
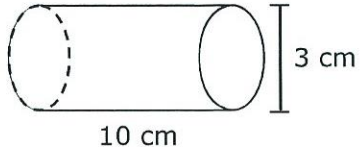
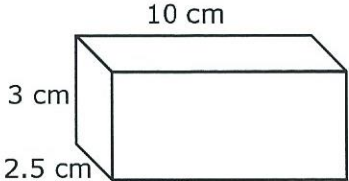


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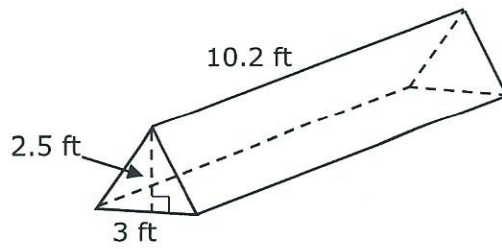
Volume

Geometric Solids

Geometric Solid	Name of Geometric Solid	Base of the Geometric Solid	Volume Formula
 <p>A right triangular prism is shown. The base is a right-angled triangle with a horizontal leg of 3 cm and a vertical leg of 3 cm. The hypotenuse is the top edge of the prism, labeled 10 cm. The length of the prism is 10 cm. Dashed lines indicate hidden edges.</p>			
 <p>A cylinder is shown lying horizontally. The length of the cylinder is 10 cm. The radius of the circular base is 3 cm. Dashed lines indicate the hidden back edge of the cylinder.</p>			
 <p>A rectangular prism is shown. The length of the prism is 10 cm. The width of the front face is 2.5 cm. The height of the prism is 3 cm.</p>			

Who's Correct?

Ben and Gwen were asked to determine the volume of the following figure.



Ben and Gwen each solved the problem but came up with different answers. Their work is shown below.

Ben's Work

$$3 \times 2.5 = 7.5$$

$$7.5 \times 10.2 = 76.5 \text{ cubic feet}$$

Gwen's Work

$$(3 \times 2.5) \div 2 = 3.75$$

$$3.75 \times 10.2 = 38.25 \text{ cubic feet}$$

Is Ben correct? Justify your answer.

Is Gwen correct? Justify your answer.

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What is one important process that could help the student answer the problem correctly?

One important process that could help the student answer the problem correctly is to remember to . . .
