

Name \_\_\_\_\_ Date \_\_\_\_\_



### Skills Maintenance

#### Common Sense Properties

#### Activity 1

Give three examples for each of the common sense properties below. A general pattern is written with variables.

**Model**

Multiplicative Identity Property,  $n \cdot 1 = n$

$$3 \cdot 1 = 3$$

$$50 \cdot 1 = 50$$

$$100 \cdot 1 = 100$$

1. Additive Inverse Property,  $n + -n = 0$

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2. Multiplicative Property of 0,  $n \cdot 0 = 0$

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3. Multiplicative Inverse Property,  $n \cdot \frac{1}{n} = 1$

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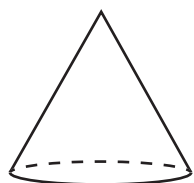
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## **Problem-Solving Activity** The Volume of Cones and Pyramids

For each of the shapes, sketch what the shape would look like if you stacked its base. Then draw lines on your sketch to show an approximation of how their volumes differ.

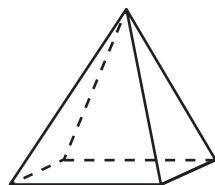
1. Cone

Sketch of Stacked Bases



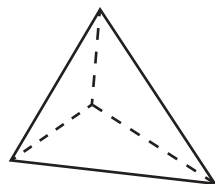
2. Rectangular Pyramid

Sketch of Stacked Bases



3. Triangular Pyramid

Sketch of Stacked Bases

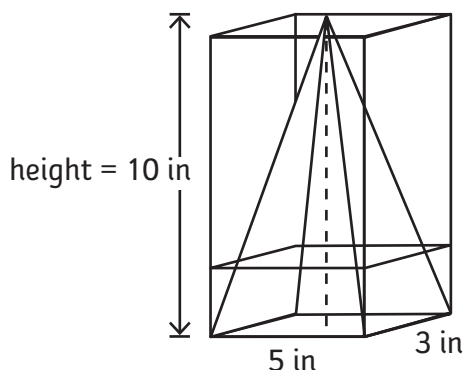


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 **Problem-Solving Activity**  
The Volume of Cones and Pyramids

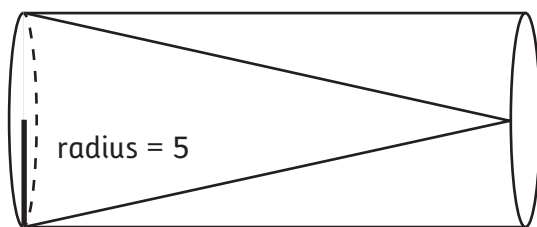
Find the volume of the prism or cylinder and the shape inside, then compare them.

- The height of the pyramid and the prism is the same. The Base for each object is also the same.



- What is the volume of the pyramid? \_\_\_\_\_
- What is the volume of the prism? \_\_\_\_\_

- height = 15

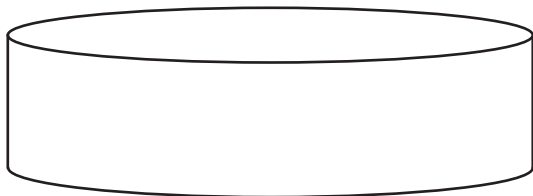


- What is the volume of the cone? \_\_\_\_\_
- What is the volume of the cylinder? \_\_\_\_\_

## Lesson 6 | Problem-Solving Activity

Name \_\_\_\_\_ Date \_\_\_\_\_

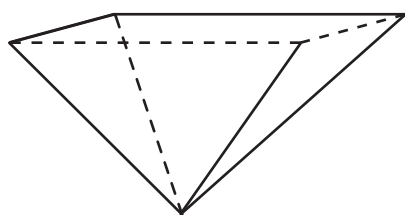
3.



The volume of this cylinder is  $300 \text{ in}^3$ .

What is the volume of a cone with the same height and Base? \_\_\_\_\_

4.



The volume of this pyramid is  $150 \text{ in}^3$ .

What is the volume of a prism with the same height and Base? \_\_\_\_\_



**Reinforce Understanding**

Use the **mBook Study Guide** to review lesson concepts.