

NAME \_\_\_\_\_

Module 13 Perimeter, Area, and Volume

Lesson 7 Volume: Pyramids and Cones

# Lesson Notes

## 13.7

### Lesson Objectives

- Derive and use formulas for volume of pyramids and cones and justify using geometric models and common materials.
- Use cubic units to find the volume of pyramids and cones.
- Demonstrate understanding of when to use linear units to describe perimeter, square units to describe area or surface and cubic units to describe volume, in real-world situations.
- Compare and contrast the differences among linear units, square units, and cubic units.

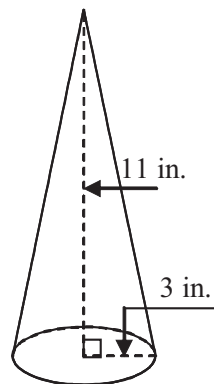
### Subtopic 1 Volume of a Cone

Volume of a Cone

$V =$  \_\_\_\_\_

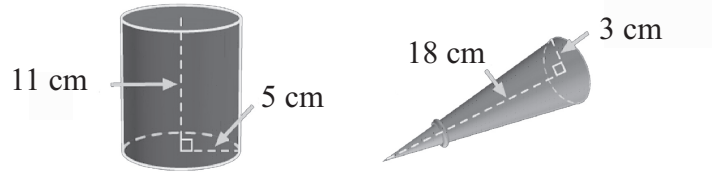


Find the volume.



2

A cone shaped icing bag has a radius of three centimeters and a height of 18 centimeters. How many times will this can of icing fill the bag? The can is a cylinder with a radius of five centimeters and a height of 11 centimeters.



### Subtopic 2

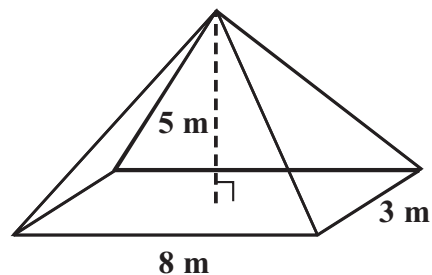
### Volume of a Pyramid

Volume of a Pyramid

$$V = \underline{\hspace{2cm}}$$

3

Find the volume.



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Find the volume.

