## 11-5 Solve It!



# 11-5 Lesson Quiz

**1.** What is the volume of a square pyramid with sides that are 12.5 m long and a height of 16 m?



- **2.** What is the volume of a traffic cone that has a height of 2.4 ft and a diameter of 1.25 feet?
- **3.** Do you UNDERSTAND? What is the volume of the oblique cone? Give your answer in terms of  $\pi$ .



## Answers

### Solve It!

Pattern: From the examples shown, the pyramids and a prism have the same base and the same height, and the volume of each pyramid is one-third the volume of its corresponding prism. Based on this pattern, the volume of the pyramid that fits in a prism with base 2 ft by 3 ft with height 5 ft will be  $\frac{1}{3}(30)$  or 10 ft<sup>3</sup>.

### Lesson Quiz

- **1.**  $833\frac{1}{3}$  m<sup>3</sup>
- **2.** about 1 ft<sup>3</sup>
- **3.**  $32\pi$  cm<sup>3</sup>

**Prentice Hall Geometry** • Solve It/Lesson Quiz on Transparencies Copyright © by Pearson Education, Inc., or its affiliates. All Rights Reserved.