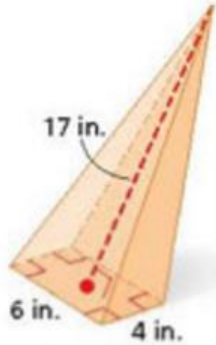


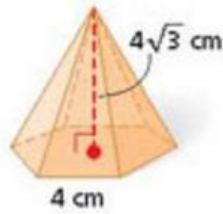
Day 3 Volume of Pyramids and Cones HW  
 pg. 761: 2-3, 6-7, 9-10, 16, 19, 34, 38, 41, 44

Find the volume of each pyramid. Round to the nearest tenth, if necessary.

2.

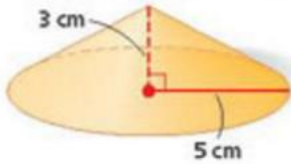


3.



Describe the effect of each change on the volume of the given figure.

9. The dimensions are tripled.

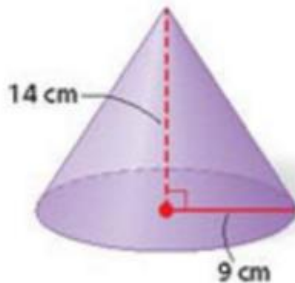


10. The dimensions are multiplied by  $\frac{1}{2}$ .

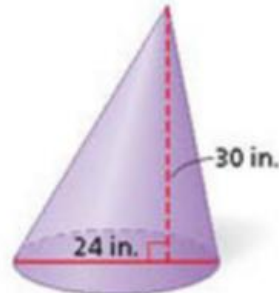


Find the volume of each cone. Give your answers both in terms of  $\pi$  and rounded to the nearest tenth.

6.



7.



16. **Carpentry** A roof that encloses an attic is a square pyramid with a base edge length of 45 feet and a height of 5 yards. What is the volume of the attic in cubic feet? In cubic yards?



19. a cone with base area  $36\pi \text{ ft}^2$  and a height equal to twice the radius

34. Find the volume of a cone with slant height 10 ft and height 8 ft.

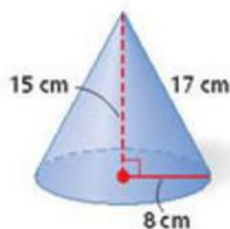
38. **/// ERROR ANALYSIS ///** Which volume is incorrect? Explain the error.

**A**

$$V = \frac{1}{3}(8^2\pi)(17)$$
$$= \frac{1088\pi}{3} \text{ cm}^3$$

**B**

$$V = \frac{1}{3}(8^2\pi)(15)$$
$$= 320\pi \text{ cm}^3$$



**MULTI-STEP  
TEST PREP**



41. A juice stand sells smoothies in cone-shaped cups that are 8 in. tall. The regular size has a 4 in. diameter. The jumbo size has an 8 in. diameter.
- Find the volume of the regular size to the nearest tenth.
  - Find the volume of the jumbo size to the nearest tenth.
  - The regular size costs \$1.25. What would be a reasonable price for the jumbo size? Explain your reasoning.



44. A cone has a volume of  $18\pi \text{ in}^3$ . Which are possible dimensions of the cone?

- A** Diameter 1 in., height 18 in.      **C** Diameter 3 in., height 6 in.  
**B** Diameter 6 in., height 6 in.      **D** Diameter 6 in., height 3 in.