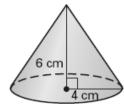
1. Compare the volume of a cone to that of a cylinder with the same base and height as the cone.

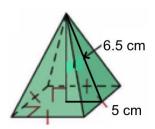
Find the volume of the solid. Round your answer to the hundredths, if necessary.

2.



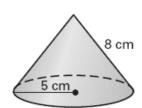
Base is_____

3.



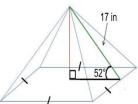
Base is_____

4.



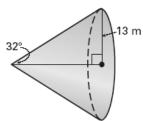
Base is_____

5.



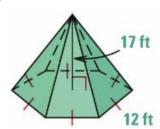
Base is_____

6.



Base is_____

7.



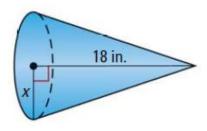
Base is_____

★ MULTIPLE CHOICE The volume of a pyramid is 45 cubic feet and the height is 9 feet. What is the area of the base?

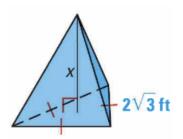
- **(A)** 3.87 ft^2
- \bullet 5 ft²
- **©** 10 ft^2
- \bigcirc 15 ft²

Solve for x.

9. Volume = $216\pi \text{ in.}^3$



10. Volume = $7\sqrt{3} ft^3$



11. ERROR ANALYSIS: Directions: *Describe* and correct the error in finding the value of the cone

$$V = \frac{1}{3}\pi(9^{2})(15)$$
= 405\pi
\approx 1272 ft³

9 ft

Answer Key: 1) The volume of the cone is 1/3 the volume of the cylinder 2) $32\pi \approx 100.53cm^3$ 3) $50cm^3$ 4) $\approx 163.49cm^3$ 5) $\approx 1956.6in^3$ 6) $\approx 3681.88m^3$ 7) $1224\sqrt{3} \approx 2120.03$ ft^3 8) D: 15ft 9) x=6 10) x=7 11) Slant height is used, not height. $V=324\pi \approx 1017.88ft^3$