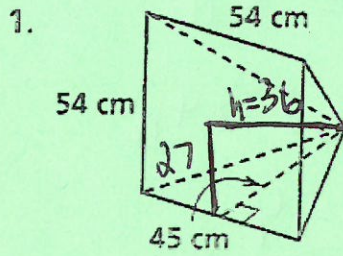


Name: _____

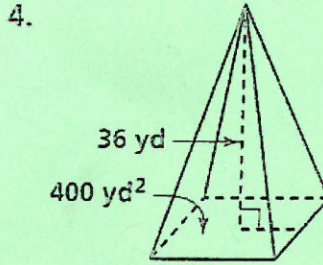
12.2 Volume Practice Problems

Find the volume of each pyramid.



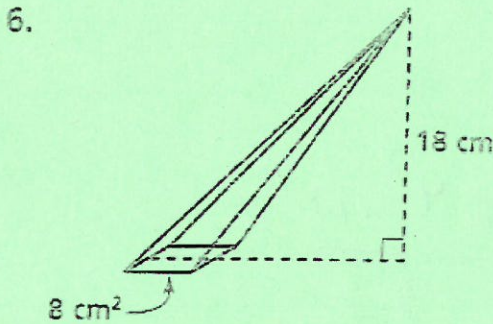
$$h^2 + 27^2 = 45^2$$

$$\frac{54^2 \cdot 36}{3} = 34,992 \text{ cm}^3$$



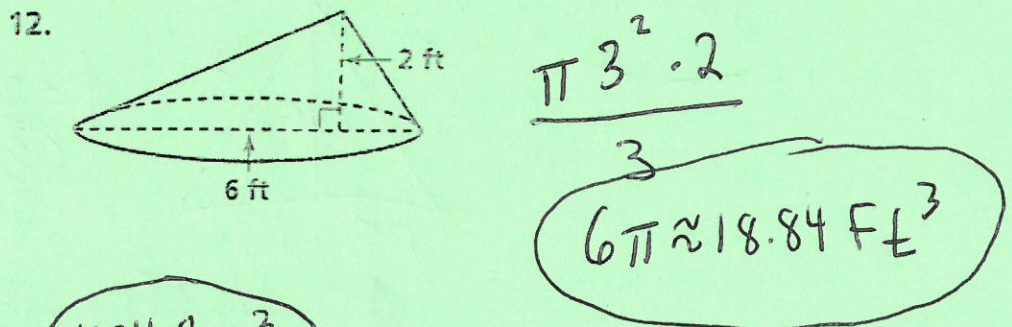
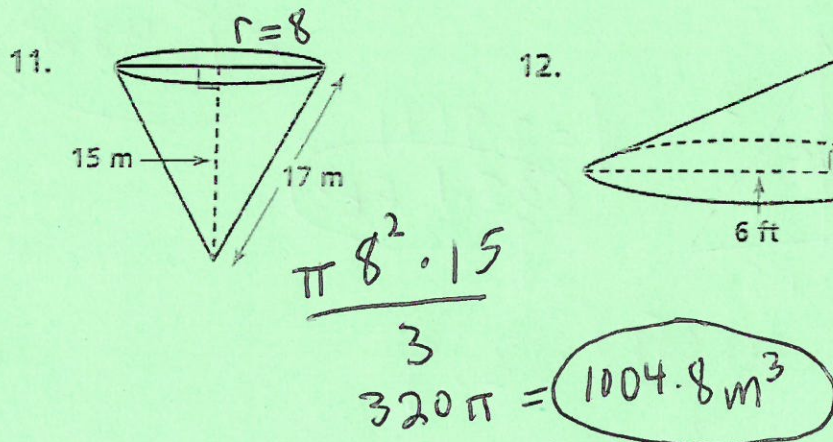
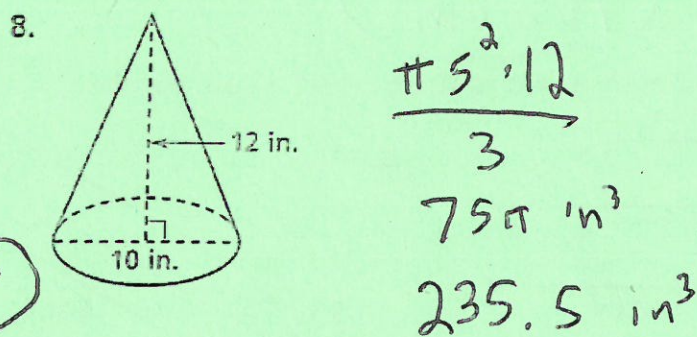
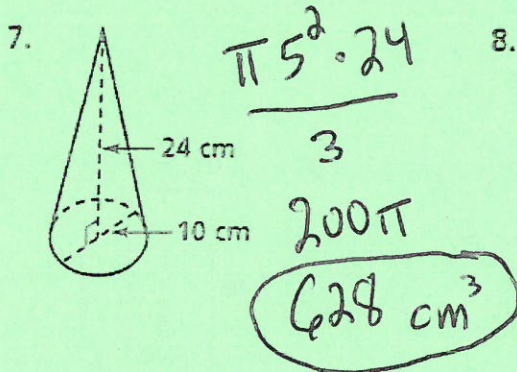
$$V = \frac{400 \cdot 36}{3}$$

$$V = 4800 \text{ yd}^3$$



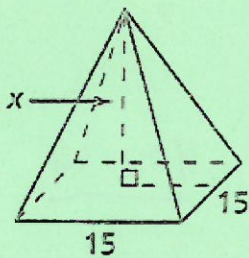
$$\frac{8 \cdot 18}{3} = 48 \text{ cm}^3$$

Find the volume of each cone. Round your answers to the nearest tenth.



Algebra Find the value of the variable in each figure.

13.

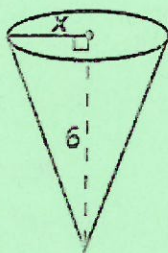


Volume = 1500

$$\frac{225 \cdot x}{3} = 1500$$

$$225 = 4500 \rightarrow x = 20$$

14.



Volume = 8π

$$\frac{\pi x^2 \cdot 6}{3} = 8\pi$$

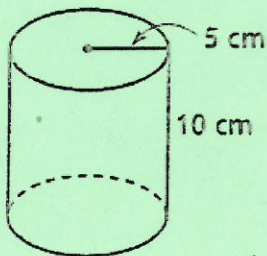
$$\pi x^2 \cdot 6 = 24\pi$$

$$x^2 = 4$$

$$x = 2$$

Find the volume of each cylinder to the nearest tenth.

5.

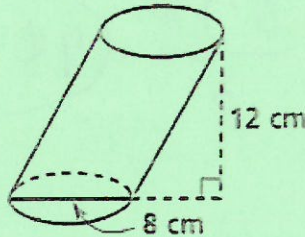


$$25\pi \cdot 10$$

$$250\pi$$

$$785 \text{ cm}^3$$

6.



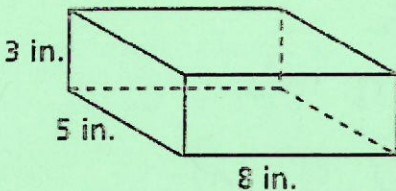
$$\frac{\pi 4^2 \cdot 12}{3}$$

$$64\pi \text{ cm}^3$$

$$200.96 \text{ cm}^3$$

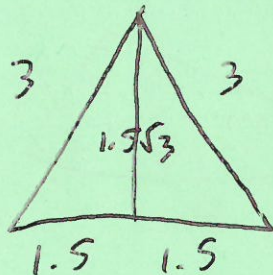
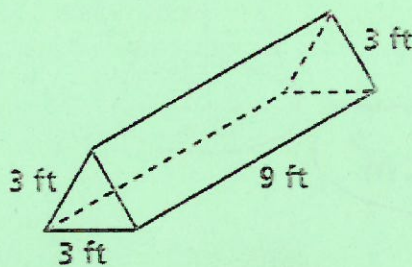
Find the volume of each prism to the nearest whole number.

7.



$$120 \text{ in}^3$$

8.

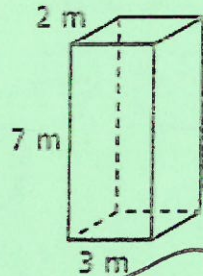


$$V = 3.9(9)$$

$$35.1 \text{ ft}^3$$

$$A_T = \frac{3(1.5\sqrt{3})}{2} = 3.9$$

9.



$$V = 42 \text{ m}^3$$