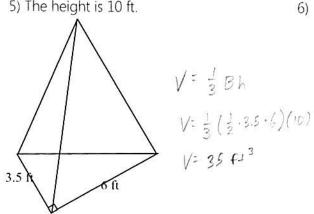
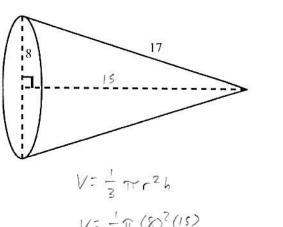
5) The height is 10 ft.





7) What is the volume of a rectangular pyramid whose base has a length of 6.3 cm, a width of 7.4 cm, and whose height is 9.5 cm?

$$V = \frac{1}{3}Bh$$

 $V = \frac{1}{3}(6.3.7.4)(9.6)$
 $V = 147.63 \text{ cm}^3$

8) What is the volume of a square pyramid whose base has a side length of 13 feet, and whose height is 8 feet?

$$V = \frac{1}{3} 8h$$

 $V = \frac{1}{3} (13.13)(8)$
 $V = 450.67 + 3$

9) What is the volume of a right circular cone whose height is 15 feet, and whose base has a radius of 6 feet?

$$V = \frac{1}{3}\pi r^{2}h$$

$$V = \frac{1}{3}\pi (6)^{2} (15)$$

$$V = 565.49 + 13$$

10) What is the volume of a right circular cone whose height is 20 feet, and whose base has a diameter of 14 feet?

$$V = \frac{1}{3}\pi r^{2}h$$

$$V = \frac{1}{3}\pi (7)^{2}(20)$$

$$V = 1026.25 f^{+3}$$

11) If the volume of a pyramid is 342 cm³, and if the height of the pyramid is 6 units, what is the area of the base?

$$V = \frac{1}{3}Bh$$

 $342 = \frac{1}{3}B(6)$
 $\frac{342}{2} = \frac{2B}{2}$
 $B = 171 \text{ which s}^2$

12) If the volume of a right circular cone is 192π in³, and if its height is 9 in, what is the radius of the base?

$$V = \frac{1}{3}\pi r^{2}h$$

$$192\pi = \frac{1}{3}\pi r^{2}(4)$$

$$192 = \frac{3}{3}r^{2}$$

$$64 = r^{2}$$

$$F = 8in$$

13) If the volume of a right circular cone is 96π in³, and if its height is 8 in, what is the radius of the base?

$$V = \frac{1}{3}\pi r^{2}h$$

$$96\pi = \frac{1}{3}\pi r^{2}(8)$$

$$96\pi = \frac{8}{3}\pi r^{2}$$

$$36 = r^{2}$$

$$3.66 = \frac{8}{3}r^{2}.\frac{3}{8}$$

$$(=6in)$$

14) If the volume of a right circular cone is 1,000 in³, and if its radius is 6 in, what is the height in terms of pi?

$$V = \frac{1}{3}\pi r^{2}h$$

$$1000 = \frac{1}{3}\pi (6)^{2}h$$

$$1000 = \frac{1}{3}\pi (36)h$$

$$\frac{1000}{12\pi} = \frac{12\pi h}{12\pi}$$

$$h = \frac{1000}{12}\pi$$