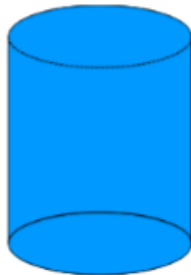
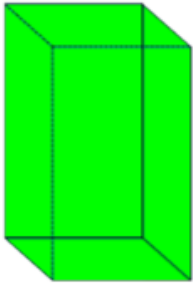


Aim: How can we find the volume of pyramids and cones?

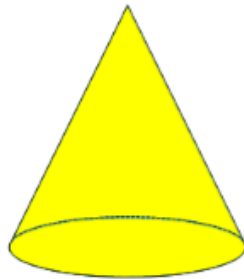
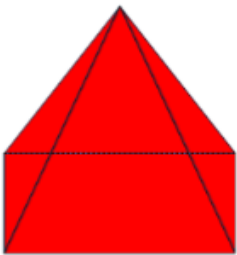
Do Now:

1) Why is the formula for the volume of a prism similar to the formula for the volume of a cylinder?



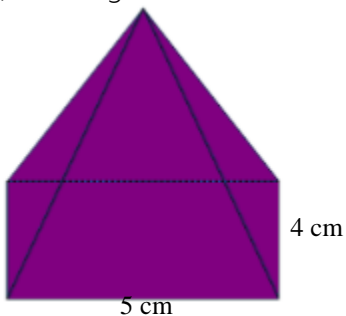
Why is a cylinder not a prism?

2) How do the formulas for the pyramid and cone compare to the formulas of the prism and cylinder?

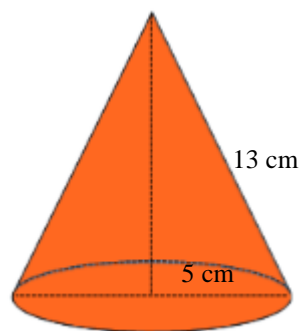


Find the volume of each solid (round to 2 decimal places if necessary).

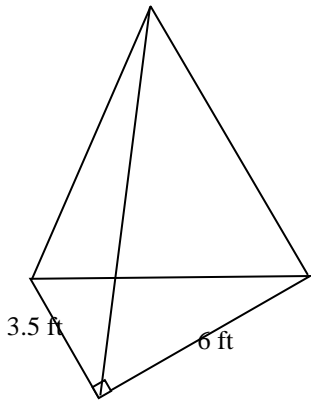
3) The height is 7 cm.



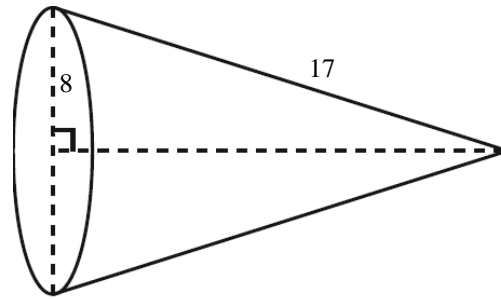
4)



5) The height is 10 ft.



6)



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?

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

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

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

11) If the volume of a pyramid is 342 cm^3 , and if the height of the pyramid is 6 units, what is the area of the base?

12) If the volume of a right circular cone is $192\pi \text{ in}^3$, and if its height is 9 in, what is the radius of the base?

13) If the volume of a right circular cone is $96\pi \text{ in}^3$, and if its height is 8 in, what is the radius of the base?

14) If the volume of a right circular cone is $1,000 \text{ in}^3$, and if its radius is 6 in, what is the height in terms of pi?