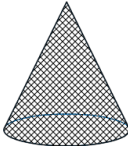
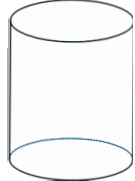
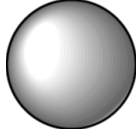


**Volume**

Given the same diameter and height for each figure, drag them to arrange in order of smallest to largest volume.

How many filled cones do you think it would take to fill the cylinder?

How many filled spheres do you think it would take to fill the cylinder?

Math Practice

37 comparison

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

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

Mar 26-9:54 AM

**Demonstration comparing volume of Cones & Spheres with volume of Cylinders**

click to go to web site

38 interactive web site

**Volume of a Cone**

click to reveal

39 cone/ sphere formulas

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


Cylinder  $\frac{1}{1} \pi r^2 h$

Mar 26-12:50 PM

**Volume**

How much ice cream can a Friendly's Waffle cone hold if it has a diameter of 6 in and its height is 10 in? Use 3.14 as your value of  $\pi$ .

(Just Ice Cream within Cone. Not on Top)  
Volume and Mass used in portion control. \$\$\$



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

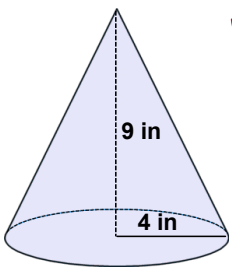
$V = \frac{1}{3} \pi (3)^2 \cdot 10$

$V = 94.25 \text{ in}^3$

Answer & Math Practice

41 cone example

24 Find the volume. Use 3.14 as your value of  $\pi$ .



9 in  
4 in

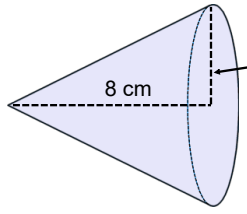
$$V = \frac{1}{3}\pi(4^2) \cdot 9$$

$$= 150.8 \text{ in}^3$$

Answer

42 question

25 Find the Volume. Use 3.14 as your value of  $\pi$ .



5 cm  
8 cm

$$V = \frac{1}{3}\pi(5^2) \cdot 8$$

$$= 209.4 \text{ cm}^3$$

Answer

43 question