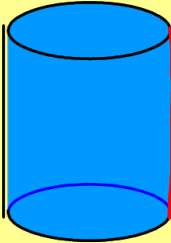


Volume of Cylinders

Label the height of the cylinder.



What shape is the base of a cylinder? **circle**

How do you find the area of the base? **$\uparrow \pi r^2$**

So the formula for volume of a cylinder is....

Volume of Cylinders

$$v = \pi r^2 h$$

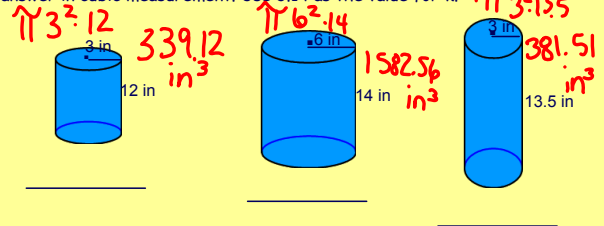
(Find the area of the circle and multiply it by the height)

Volume of a Cylinder

The formula for finding the volume of a cylinder is

$$\text{Volume} = \pi r^2 h$$

Find the volume of the following cylinders. Remember to express the answer in cubic measurement. Use 3.14 as the value for π .



$\uparrow 3^2 \cdot 12 = 339.12 \text{ in}^3$

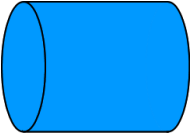
$\uparrow 6^2 \cdot 14 = 1582.56 \text{ in}^3$

$\uparrow 3^2 \cdot 13.5 = 381.51 \text{ in}^3$

Cylinders

The radius is 3 inches and the height is 5 inches.

Volume = 141.3 in^3

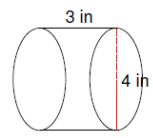


Find the volume of the following...



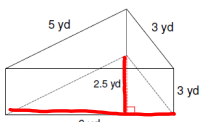
276.32 cm^3

$$\begin{array}{r} 3.14 \\ \times 4 \\ \hline 12.56 \\ \times 22 \\ \hline 276.32 \end{array}$$

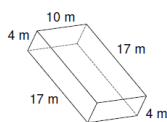


37.68 in^3

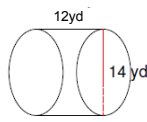
Exit Ticket: Find the volume of the following figures.



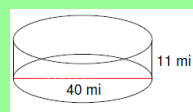
22.5 yd^3



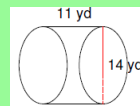
680 m^3



1846.32 yd^3



$\text{volume} = \pi \times r^2 \times h$



volume = $\pi \times r^2 \times h$

