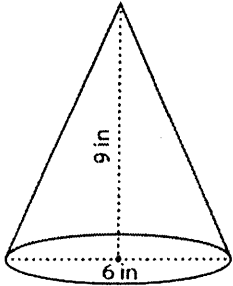
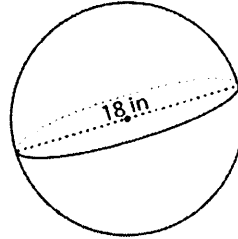


Show All Work – Formula, Substitute, Solve with Label

1. Find the Volume of the Following to the *nearest tenth*.



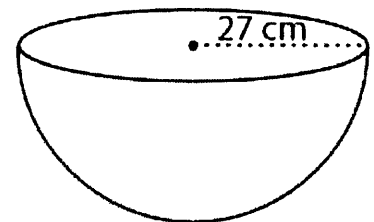
$$V = \frac{1}{3} \pi \cdot r^2 \cdot h$$



$$V = \frac{4}{3} \pi \cdot r^3$$

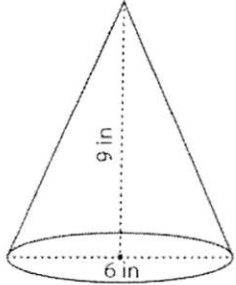
2. Find the radius of a cone with a volume of 204.8π cubic inches and a height of 10 inches. Round to the *nearest tenth*.

3. A large salad bowl shown below is in the shape of a hemi-sphere (Half of a Sphere). Calculate the volume of the bowl *in terms of* π .

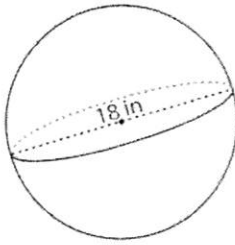


Show All Work - Formula, Substitute, Solve with Label

1. Find the Volume of the Following to the *nearest tenth*.



$V = \frac{1}{3} \pi \cdot r^2 \cdot h$
 $V = \frac{1}{3} \pi \cdot 3^2 \cdot 9$
 $V = 27 \pi$
 $V = 84.8 \text{ in}^3$



$V = \frac{4}{3} \pi \cdot r^3$
 $V = \frac{4}{3} \pi \cdot 9^3$
 $V = 972 \pi$
 $V = 3053.6 \text{ in}^3$

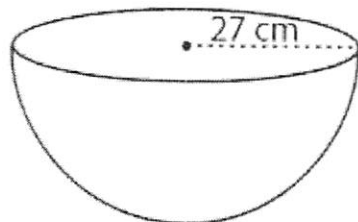
2. Find the radius of a cone with a volume of 204.8π cubic inches and a height of 10 inches. Round to the nearest tenth.

$V = \frac{1}{3} \cdot \pi \cdot r^2 \cdot h$
 $204.8 \pi = \frac{1}{3} \pi \cdot r^2 \cdot 10$
 $\frac{204.8}{\frac{10}{3}} = \frac{\frac{10}{3} \cdot r^2}{\frac{10}{3}}$
 $\sqrt{61.44} = \sqrt{r^2} \rightarrow r = 7.8 \text{ in}$

$r = ?$
 $V = 204.8 \pi$
 $h = 10$

3. A large salad bowl shown below is in the shape of a hemi-sphere (Half of a Sphere). Calculate the volume of the bowl *in terms of π* .

$V = \frac{4}{3} \pi \cdot r^3$
 $V = \frac{4}{3} \pi \cdot 27^3$



$V = 26244 \pi$
 $V_{\frac{1}{2} \text{ SPHERE}} = 13122 \pi \text{ cm}^3$