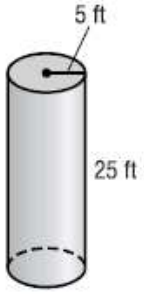
VOLUME OF A CYLINDER

Find the volume of the cylinder. Use 3.14 for π. Round to the nearest tenth if necessary.

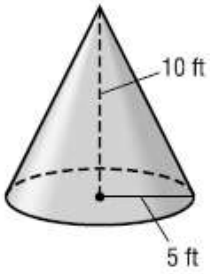


$V = \pi r^2 h$	Volume of a cylinder
$V = 3.14 \cdot 5^2 \cdot 25$	$\pi \approx 3.14$, $r = 5$, $h = 25$
$V \approx 1{,}962.5$	Simplify.

The volume is about 1,962.5 cubic feet.

VOLUME OF A CONE

Find the volume of the cone. Use 3.14 for the π.



$V = \frac{1}{3} \pi r^2 h$	Volume of a cone
$V = \frac{1}{3} \cdot 3.14 \cdot 5^2 \cdot 10$	$\pi \approx 3.14$, $r = 5$, $h = 10$
$V \approx 261.7$	Simplify.

The volume is about 261.7 cubic feet.

VOLUME OF A SPHERE

Find the volume of the sphere. Round to the nearest tenth.

$V = \frac{4}{3} \pi r^3$	Volume of a sphere
$V = \frac{4}{3} \pi (5)^3$	Replace r with 5.
$V \approx 523.6 \text{ in}^3$	Simplify.

The volume is about 523.6 in^3.