

Student Name: \_\_\_\_\_

Score: \_\_\_\_\_

### Volume of a Cylindrical Prism

Work Space

<p>Radius of a cylinder is 6 inches and the height is 13 inches. Find the exact volume of a cylinder.</p> <p>Volume = _____</p>	
<p>Diameter of a cylindrical tank is 9 feet and the height of a tank is 25 feet. Find the volume of the cylindrical tank to the nearest hundredth place.</p> <p>Volume = _____</p>	
<p>Radius = 1.2 yards; Height = 3.4 yards. Find the volume of a cylindrical prism to the nearest two decimal places. (Take <math>\pi = 3.14</math>)</p> <p>Volume = _____</p>	
<p>Radius of a cylindrical prism is 2 inches and the height of a prism is four times the radius. Find the volume of a cylindrical prism. (Take <math>\pi = 3.14</math>)</p> <p>Volume = _____</p>	
<p>Find the volume of a cylindrical prism whose diameter is 7 yards and the height is 8 yards. (Round off the result to the nearest tenth)</p> <p>Volume = _____</p>	

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**Answers:**

Work Space

Radius of a cylinder is 6 inches and the height is 13 inches. Find the exact volume of a cylinder.

$$\text{Volume} = 468 \pi \text{ in}^3$$

Diameter of a cylindrical tank is 9 feet and the height of a tank is 25 feet. Find the volume of the cylindrical tank to the nearest hundredth place.

$$\text{Volume} = 1590.43 \text{ ft}^3$$

Radius = 1.2 yards; Height = 3.4 yards. Find the volume of a cylindrical prism to the nearest two decimal places. (Take  $\pi = 3.14$ )

$$\text{Volume} = 15.37 \text{ yd}^3$$

Radius of a cylindrical prism is 2 inches and the height of a prism is four times the radius. Find the volume of a cylindrical prism. (Take  $\pi = 3.14$ )

$$\text{Volume} = 100.48 \text{ in}^3$$

Find the volume of a cylindrical prism whose diameter is 7 yards and the height is 8 yards. (Round off the result to the nearest tenth)

$$\text{Volume} = 307.9 \text{ yd}^3$$