

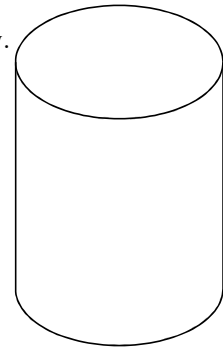
Geometry

Cylinders


A. MULTIPLE CHOICE. Write the letter for the best answer in the space provided below.

\_\_\_\_\_ 1. The formula for determining the volume of a cylinder is:

- a.  $a^2 + b^2 = c^2$
- b. AH
- c.  $2pr$
- d.  $\pi r^2 H$
- e. Both b. & d. above



B. CALCULATIONS. Calculate the quantities as specified in the table, below. Round to two decimal places. Express the volume in *cubic feet only*.

$\frac{D}{2}$ <u>Radius</u>	$2r$ or $\frac{C}{\pi}$ <u>Diameter</u>	$2\pi r$ or $\pi D$ <u>Circumference</u>	$\frac{V}{H}$ or $\pi r^2$ <u>Area</u>	$\frac{V}{A}$ <u>Height</u>	$AH$ or $\pi r^2 H$ <u>Volume</u>
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EXAMPLE

2"	4"	$12 \frac{9}{16}$ "	12.56 sq. in.	2"	25.13 cu. in.
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ASSIGNMENT

4"	2) <input style="width: 60px; height: 20px;" type="text"/>	3) <input style="width: 60px; height: 20px;" type="text"/>	4) <input style="width: 60px; height: 20px;" type="text"/>	10"	<input style="width: 60px; height: 20px;" type="text"/>
1' - 0"	6) <input style="width: 60px; height: 20px;" type="text"/>	7) <input style="width: 60px; height: 20px;" type="text"/>	8) <input style="width: 60px; height: 20px;" type="text"/>	1' - 7"	9) <input style="width: 60px; height: 20px;" type="text"/>
2' - 0"	4' - 0"	10) <input style="width: 60px; height: 20px;" type="text"/>	11) <input style="width: 60px; height: 20px;" type="text"/>	2' - 3 1/2"	12) <input style="width: 60px; height: 20px;" type="text"/>
13) <input style="width: 60px; height: 20px;" type="text"/>	12"	14) <input style="width: 60px; height: 20px;" type="text"/>	15) <input style="width: 60px; height: 20px;" type="text"/>	3' - 0"	16) <input style="width: 60px; height: 20px;" type="text"/>
17) <input style="width: 60px; height: 20px;" type="text"/>	1' - 0"	18) <input style="width: 60px; height: 20px;" type="text"/>	19) <input style="width: 60px; height: 20px;" type="text"/>	3' - 6"	20) <input style="width: 60px; height: 20px;" type="text"/>
21) <input style="width: 60px; height: 20px;" type="text"/>	22) <input style="width: 60px; height: 20px;" type="text"/>	$31 \frac{7}{16}$ "	23) <input style="width: 60px; height: 20px;" type="text"/>	36"	24) <input style="width: 60px; height: 20px;" type="text"/>
25) <input style="width: 60px; height: 20px;" type="text"/>	26) <input style="width: 60px; height: 20px;" type="text"/>	$37 \frac{5}{8}$ "	27) <input style="width: 60px; height: 20px;" type="text"/>	48"	28) <input style="width: 60px; height: 20px;" type="text"/>
29) <input style="width: 60px; height: 20px;" type="text"/>	30) <input style="width: 60px; height: 20px;" type="text"/>	31) <input style="width: 60px; height: 20px;" type="text"/>	1.67 sq. ft.	32) <input style="width: 60px; height: 20px;" type="text"/>	10 cu. ft.