

STEPS AND PROCESS

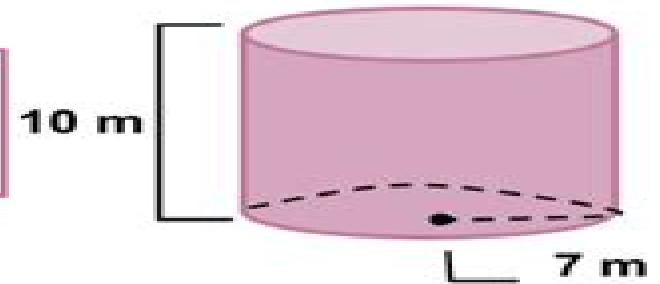
VOLUME OF CYLINDER

$$\text{Formula: } V = \pi r^2 h$$

Using the formula, you can identify the amount of space that can fit inside a cylinder.

$\pi = \text{Pi}$
 $R^2 = \text{Radius}$
 $H = \text{Height}$

$\pi = 3.14$
 $R^2 = 7 \text{ m}$
 $H = 10 \text{ m}$



Step 1: Substitute the given Radius and Height, and Pi Value (3.14) to the formula.

Step 2: Square the length of the given Radius.

Step 3: Multiply all of the given together to get the final answer.

Example:

$$\pi r^2 h = (3.14)(7\text{m})^2(10\text{m})$$

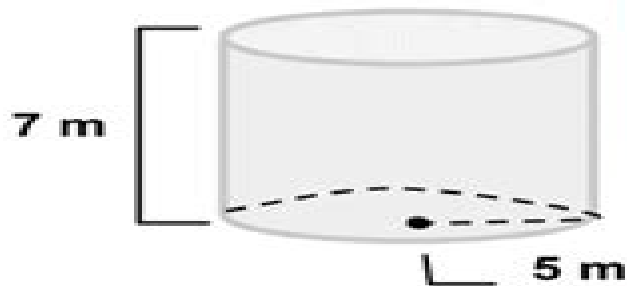
Example:

$$= (3.14)(49\text{m}^2)(10\text{m})$$

Example:

$$= (3.14)(490\text{m}^3)$$

$$V = 1,538.6 \text{ m}^3$$



$\pi = 3.14$
 $R^2 = 5 \text{ m}$
 $H = 7 \text{ m}$

$$V = (3.14)(5\text{m})^2(7\text{m})$$

$$= (3.14)(25\text{m}^2)(7\text{m})$$

$$= (3.14)(175\text{m}^3)$$

$$V = 549.5 \text{ m}^3$$



Volume Of Cylinders Real World Problems

Ruth Harbin Miles, Lois A. Williams



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Implementing and Teaching Guide Glenda Lappan, 2006 *Mathematics Framework for the 2009 National Assessment of Educational Progress* United States. National Assessment Governing Board, 2008 **The Literary World** , 1893

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