

Unit 4 - 4.7 & 4.8



Volume of Cylinder & Cone

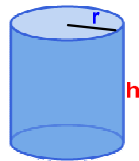
Today's Learning Targets:

4.7 I can recall and use the formula to find the volume of a cylinder.

4.8 I can recall and use the formula to find the volume of a cone.

Volume of a Cylinder

$V =$



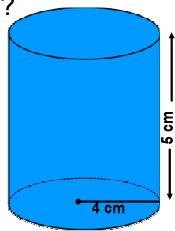
What is the volume of the given cylinder in cubic centimeters?

Step 1: State the **Formula**

Step 2: Fill in the formula with **numbers**

Step 3: Crunch the numbers

Step 4: **Label** your answer



$v = \pi r^2 h$

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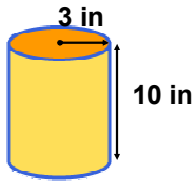
What is the volume of the given cylinder in cubic inches?

Step 1: State the **Formula**

Step 2: Fill in the formula with **numbers**

Step 3: Crunch the numbers

Step 4: **Label** your answer



$$v = \pi r^2 h$$

A cylinder has a base that is 10 cm and a height of 4 cm, what is the volume of the cylinder?

Draw a picture first, then solve.

Step 1: State the **Formula**

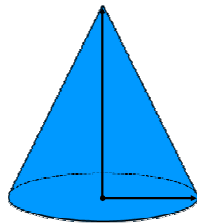
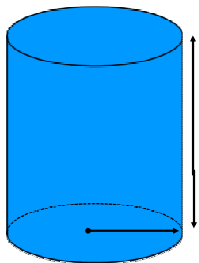
Step 2: Fill in the formula with **numbers**

Step 3: Crunch the numbers

Step 4: **Label** your answer

$$v = \pi r^2 h$$

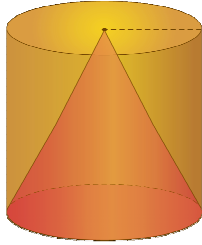
What do cylinders and cones have in common?



$$v = \pi r^2 h$$

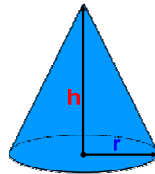
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What do cylinders and cones have in common?



Volume of a Cone

V =



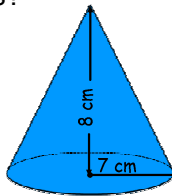
What is the volume of the given cone in cubic centimeters?

Step 1: State the **Formula**

Step 2: Fill in the formula with **numbers**

Step 3: Crunch the numbers

Step 4: **Label** your answer



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

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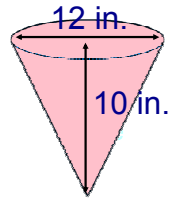
What is the volume of the given cone in cubic centimeters?

Step 1: State the **Formula**

Step 2: Fill in the formula with **numbers**

Step 3: Crunch the numbers

Step 4: **Label** your answer



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

A cone has a diameter that is 12 cm and a height of 10 cm. What is the volume?

Draw a picture first, then solve.

Step 1: State the **Formula**

Step 2: Fill in the formula with **numbers**

Step 3: Crunch the numbers

Step 4: **Label** your answer

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