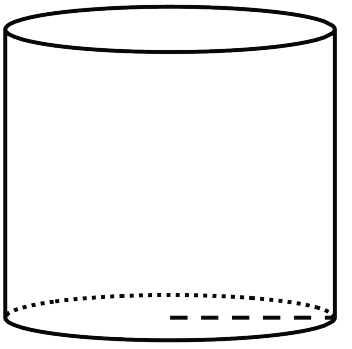
# Lesson 13: The Volume of a Cylinder

## Cool Down: Liquid Volume



The cylinder shown here has a height of 7 centimeters and a radius of 4 centimeters.

1. What is the area of the base of the cylinder? Express your answer in terms of $\pi$.

2. How many cubic centimeters of fluid can fill this cylinder? Express your answer in terms of $\pi$.

3. Give a decimal approximation of your answer to the second question using 3.14 to approximate $\pi$.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