# VOLUME OF A CYLINDER

———————————————————— **SKILLS** ————————————————————

**Find the volume of the cylinder. Use 3.14 for $\pi$. Round your answer to the nearest hundredth.**

**1.**
8 m
5 m

$V =$ _____

**2.**
7 in.
7.5 in.

$V =$ _____

**3.**
3.5 ft
4.5 ft

$V =$ _____

**4.**
2.5 m
11 m
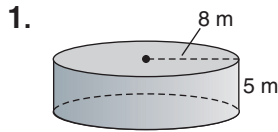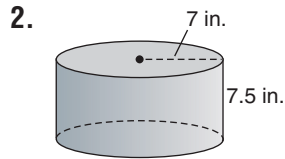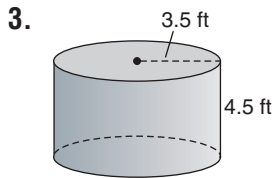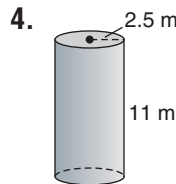
$V =$ _____

**Compare the volumes of the cylinders. Circle the correct answer.**
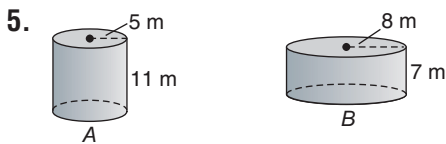
**5.**
5 m
11 m
*A*

8 m
7 m
*B*

(a) The volume of *A* is less than the volume of *B*.

(b) The volume of *A* is greater than the volume of *B*.

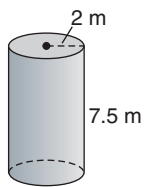(c) The volumes of *A* and *B* are equal.

**6.**
4 m
12 m
*A*

8 m
3 m
*B*
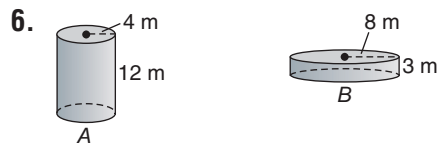
(a) The volume of *A* is less than the volume of *B*.

(b) The volume of *A* is greater than the volume of *B*.
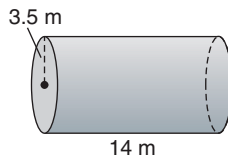
(c) The volumes of *A* and *B* are equal.

**Is the volume of the cylinder correct? Circle yes or no.**
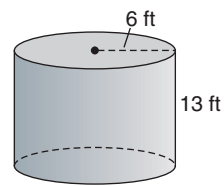
**7.** $V = 92.4 \text{ m}^3$
2 m
7.5 m

yes    no
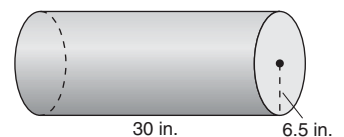
**8.** $V = 583.51 \text{ m}^3$
3.5 m
14 m

yes    no

**9.** $V = 1469.52 \text{ ft}^3$
6 ft
13 ft

yes    no

———————————————————— **PROBLEM SOLVING** ————————————————————

**10.** In a bingo game, numbered balls are put into a large cylinder and spun around to mix up the balls. The cylinder has a height of 30 inches and a radius of 6.5 inches. What is the volume of the cylinder?

30 in.
6.5 in.

The volume of the cylinder is _____ cubic inches.