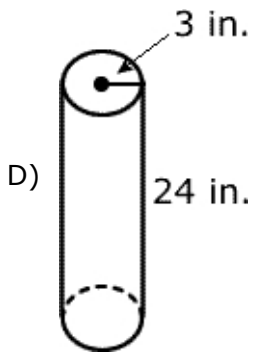
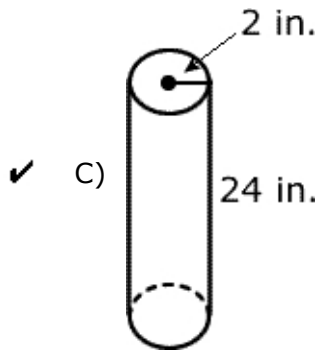
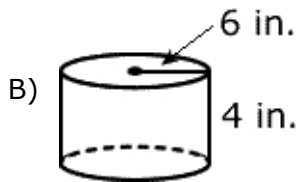
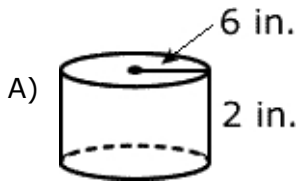
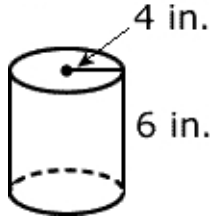


## Volume of Cones, Spheres, and Cylinders (Demo Version)

Read each question carefully.

- 1) Which cylinder has the same volume as the cylinder in Figure 1?

Figure 1



## Volume of Cones, Spheres, and Cylinders (Demo Version)

2) Which cylinder has the same volume as the cylinder in Figure 1?

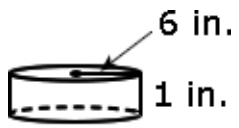
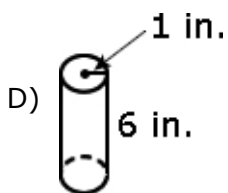
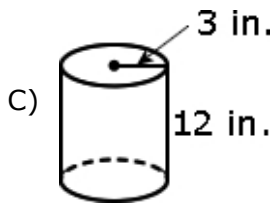
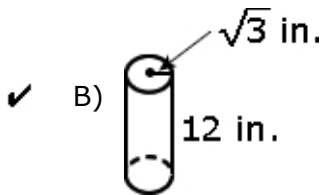
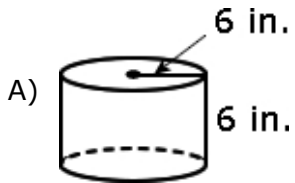


Figure 1



### Volume of Cones, Spheres, and Cylinders (Demo Version)

- 3) Which cylinder has the same volume as the cylinder in Figure 1?

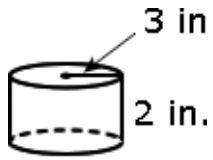
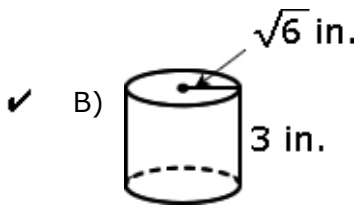
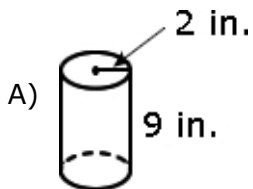


Figure 1

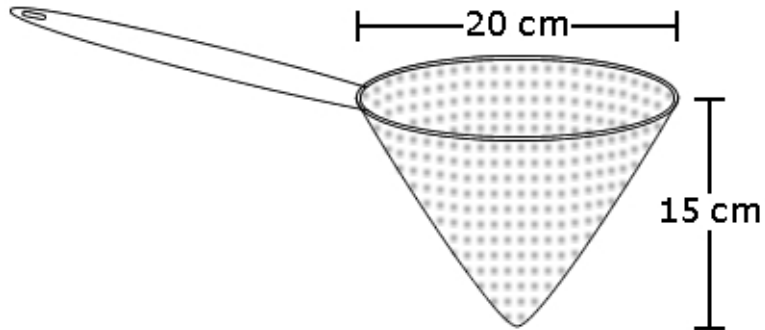


- 4) An inflatable ball has a diameter of 6 inches. About how many cubic inches of air does the ball hold?

- A) 30  
B) 40  
✓ C) 110  
D) 900

## Volume of Cones, Spheres, and Cylinders (Demo Version)

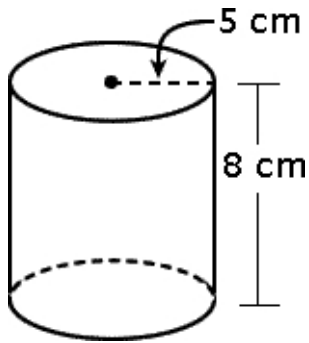
- 5) Norm wants to know how much pasta will fit in the strainer below.  
Which is closest to the volume of the pasta strainer?



- ✓ A) 1,570 cubic centimeters
  - B) 4,710 cubic centimeters
  - C) 6,280 cubic centimeters
  - D) 25,120 cubic centimeters
- 
- The height of a hat shaped like a cone is 10 inches.
- 6) The volume of the hat is  $30\pi$  cubic inches.  
What is the diameter of the hat?
- A) 3 inches
  - ✓ B) 6 inches
  - C) 9 inches
  - D) 10 inches
-

## Volume of Cones, Spheres, and Cylinders (Demo Version)

- 7) What is the approximate volume of the cylinder?



- A) 126 cubic cm
- B) 251 cubic cm
- ✓ C) 628 cubic cm
- D) 1,005 cubic cm
- 
- 8) What is the volume, in cubic cm, of a cylinder with a base radius of 4 cm and a height of 5 cm?

$$(\text{Volume} = \pi r^2 h)$$

- A)  $20\pi$  cubic cm
- ✓ B)  $80\pi$  cubic cm
- C)  $100\pi$  cubic cm
- D)  $320\pi$  cubic cm
-

## Volume of Cones, Spheres, and Cylinders (Demo Version)

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9) A sphere-shaped ball has a volume of  $\frac{4}{3}\pi$  cubic inches.

What is the diameter?

A) 1 inch

B)  $\frac{4}{3}$  inches

✓ C) 2 inches

D)  $\frac{8}{3}$  inches

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