



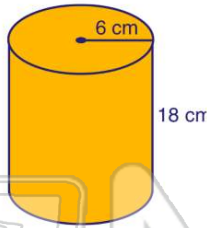
# Finding Volume

Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

- 1 What is the **volume** of the cylinder shown?

$$V = \pi r^2 h \quad \pi = 3.14$$

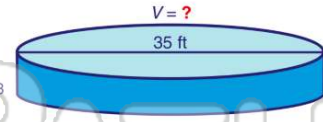
- A 678.24 cm<sup>3</sup>
- B 2,034.72 cm<sup>3</sup>
- C 6,104.16 cm<sup>3</sup>
- D 8,138.88 cm<sup>3</sup>



- 2 An above ground **4 ft** pool has a diameter of **35 ft**. What is the **volume** of the pool?

$$V = \pi r^2 h \quad \pi = 3.14$$

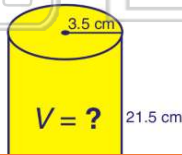
- A 439.6 ft<sup>3</sup>
- B 879.2 ft<sup>3</sup>
- C 3,846.5 ft<sup>3</sup>
- D 15,386 ft<sup>3</sup>



- 3 A can of tennis balls is **21.5 cm** tall and has a radius of **3.5 cm**. What is the **volume** of the can?

$$V = \pi r^2 h \quad \pi = 3.14$$

- A 472.57 cm<sup>3</sup>
- B 826.998 cm<sup>3</sup>



- 4 The volume of the cylinder shown is **5,837.26 cm<sup>3</sup>**. If the height is **11 cm**, what is the **radius** of the cylinder?

$$V = \pi r^2 h \quad \pi = 3.14$$

$$V = 5,837.26 \text{ cm}^3$$

- A 13 cm
- B 15 cm



## PREVIEW

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- 5  
6  
7

- A 36 in.<sup>3</sup>
- B 108 in.<sup>3</sup>
- C 324 in.<sup>3</sup>
- D 432 in.<sup>3</sup>

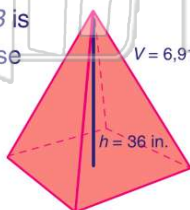


the base

- A 220 in.<sup>3</sup>
- B 968 in.<sup>3</sup>
- C 1,210 in.<sup>3</sup>
- D 5,760 in.<sup>3</sup>

- 9 The pyramid shown has a **volume** of **6,912 in.<sup>3</sup>**. How long is the **base**?  
 $V = \frac{1}{3} Bh$ , where  $B$  is the area of the base

- A 4 in.
- B 16 in.
- C 24 in.
- D 48 in.



- 10 A pyramid has a volume of **8,019 cm<sup>3</sup>** and a base with sides of **27 cm**. What is the **height** of the pyramid?  
 $V = \frac{1}{3} Bh$ , where  $B$  is the area of the base

- A 33 cm
- B 35 cm
- C 36 cm
- D 37 cm



## ANSWER KEY

What is the **volume** of the cylinder shown?

$$V = \pi r^2 h \quad \pi = 3.14$$

- A 678.24 cm<sup>3</sup>
- B 2,034.72 cm<sup>3</sup>
- C 6,104.16 cm<sup>3</sup>
- D 8,138.88 cm<sup>3</sup>

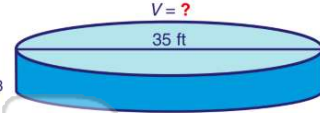


(b)

An above ground **4 ft** pool has a diameter of **35 ft**. What is the **volume** of the pool?

$$V = \pi r^2 h \quad \pi = 3.14$$

- A 439.6 ft<sup>3</sup>
- B 879.2 ft<sup>3</sup>
- C 3,846.5 ft<sup>3</sup>
- D 15,386 ft<sup>3</sup>

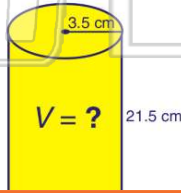


(c)

A can of tennis balls is **21.5 cm** tall and has a radius of **3.5 cm**. What is the **volume** of the can?

$$V = \pi r^2 h \quad \pi = 3.14$$

- A 472.57 cm<sup>3</sup>
- B 826.998 cm<sup>3</sup>
- C 3,308 cm<sup>3</sup>
- D



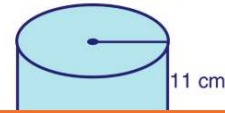
(b)

The volume of the cylinder shown is **5,837.26 cm<sup>3</sup>**. If the height is **11 cm**, what is the **radius** of the cylinder?

$$V = \pi r^2 h \quad \pi = 3.14$$

$$V = 5,837.26 \text{ cm}^3$$

- A 13 cm
- B 15 cm
- C 26 cm



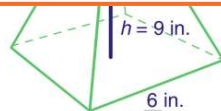
(a)



## PREVIEW

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- A 36 in.<sup>3</sup>
- B 108 in.<sup>3</sup>
- C 324 in.<sup>3</sup>
- D 432 in.<sup>3</sup>

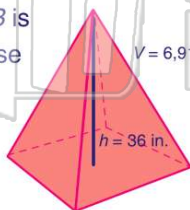


- A 220 in.<sup>3</sup>
- B 968 in.<sup>3</sup>
- C 1,210 in.<sup>3</sup>
- D 5,760 in.<sup>3</sup>

The pyramid shown has a **volume** of **6,912 in.<sup>3</sup>**. How long is the **base**?

$$V = \frac{1}{3} Bh, \text{ where } B \text{ is the area of the base}$$

- A 4 in.
- B 16 in.
- C 24 in.
- D 48 in.



(c)

A pyramid has a volume of **8,019 cm<sup>3</sup>** and a base with sides of **27 cm**.

What is the **height** of the pyramid?

$$V = \frac{1}{3} Bh, \text{ where } B \text{ is the area of the base}$$

- A 33 cm
- B 35 cm
- C 36 cm
- D 37 cm

(a)