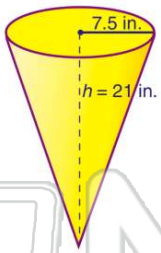
# Finding Volume

Math G

Name _____ Class _____ Date _____

**1** What is the **volume** of the cone shown?

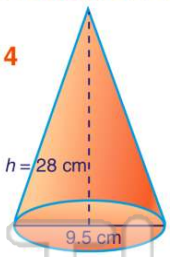
$V = \frac{1}{3}\pi r^2 h$ $\pi = 3.14$




**A** 329.7 in.³
**B** 1,236.4 in.³
**C** 1,854.6 in.³
**D** 3,461.9 in.³

**2** What is the approximate **volume** of the cone shown?

$V = \frac{1}{3}\pi r^2 h$ $\pi = 3.14$




**A** 139 cm³
**B** 264 cm³
**C** 661.23 cm³
**D** 2,645 cm³

**3** If a cone has a height of **13 inches** and the base has a radius of **3 inches**. What is the **volume** of the cone?

$V = \frac{1}{3}\pi r^2 h$ $\pi = 3.14$

**A** 81.64 in.³
**B** 122.46 in.³
**C**
**D**

**4** If the **volume** of the ice cream **cone** shown is **150.72 cm³**, what is the approximate **height** of the cone without the ice cream?

$V = \frac{1}{3}\pi r^2 h$ $\pi = 3.14$


**A** 2.25 cm **C** 8 cm

**5** If

4

p

V

**A**
**B**
**C**
**D**


PREVIEW

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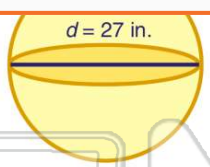
**7** V

s

V

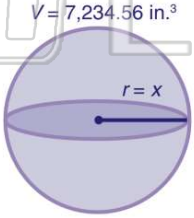
**A** 8,086.1 cm³
**B** 10,300.77 cm³
**C** 20,601.54 cm³
**D** 82,406.16 cm³




**A** 3,052.08 cm³
**B** 6,104.16 cm³
**C** 12,208.32 cm³
**D** 24,416.64 cm³

**9** If the **volume** of the sphere shown is **7,234.56 in.³**, what is the approximate **radius**?

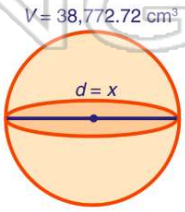
$V = \frac{4}{3}\pi r^3$ $\pi = 3.14$




**A** 12 in.
**B** 14.5 in.
**C** 29.4 in.
**D** 41.6 in.

**10** If the **volume** of a sphere is **38,772.72 cm³**, what is its approximate **diameter**?

$V = \frac{4}{3}\pi r^3$ $\pi = 3.14$



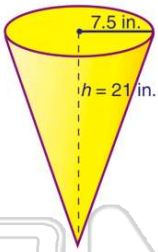

**A** 21 cm
**B** 33 cm
**C** 42 cm
**D** 66 cm

# Finding Volume

## ANSWER KEY

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

$V = \frac{1}{3}\pi r^2 h$ $\pi = 3.14$

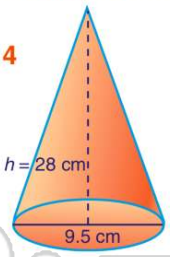



**A** 329.7 in.$^3$
**B** 1,236.4 in.$^3$
**C** 1,854.6 in.$^3$
**D** 3,461.9 in.$^3$

b

What is the approximate **volume** of the cone shown?

$V = \frac{1}{3}\pi r^2 h$ $\pi = 3.14$




**A** 139 cm$^3$
**B** 264 cm$^3$
**C** 661.23 cm$^3$
**D** 2,645 cm$^3$

c

If a cone has a height of **13 inches** and the base has a radius of **3 inches**. What is the **volume** of the cone?

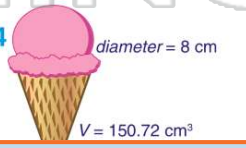
$V = \frac{1}{3}\pi r^2 h$ $\pi = 3.14$

**A** 81.64 in.$^3$
**B** 122.46 in.$^3$
**C** 169.56 in.$^3$
**D**

b

If the **volume** of the ice cream **cone** shown is **150.72 cm$^3$**, what is the approximate **height** of the cone without the ice cream?

$V = \frac{1}{3}\pi r^2 h$ $\pi = 3.14$




**A** 2.25 cm **C** 8 cm
**B** 6 cm **D** 9 cm

d



If
4
p
V

A
B
C
D

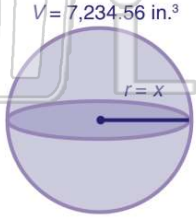
W
s
V

A
B 10,300.77 cm$^3$
C 20,601.54 cm$^3$
D 82,406.16 cm$^3$

B 6,104.16 cm$^3$
C 12,208.32 cm$^3$
D 24,416.64 cm$^3$

If the **volume** of the sphere shown is **7,234.56 in.$^3$**, what is the approximate **radius**?

$V = \frac{4}{3}\pi r^3$ $\pi = 3.14$

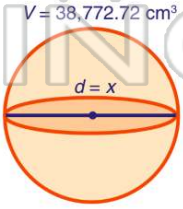



**A** 12 in.
**B** 14.5 in.
**C** 29.4 in.
**D** 41.6 in.

a

If the **volume** of a sphere is **38,772.72 cm$^3$**, what is its approximate **diameter**?

$V = \frac{4}{3}\pi r^3$ $\pi = 3.14$




**A** 21 cm
**B** 33 cm
**C** 42 cm
**D** 66 cm

c