Volume

Math

Name_____ Class_____ Date_____

1 An aquarium is 30 cm tall, 34 cm long, and 20 cm wide. **What is the volume of the aquarium?**

$V = \ell \cdot w \cdot h$

A 2,040 cm³
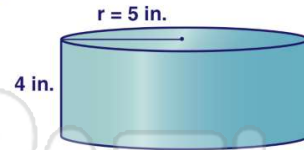B 8,400 cm³
C 10,200 cm³
D 20,400 cm³

2 Find the **volume** of this cylinder.

$V = \pi \cdot r^2 \cdot h$

r = 5 in.

A 50 in.³
B 100 in.³   4 in.
C 314 in.³
D 625 in.³

3 Each small cube has a volume of 1 in.³ What is the **volume of the block shown?**

$V = \ell \cdot w \cdot h$

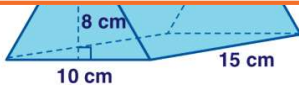**4** What is the **volume** of this triangular prism?

$B = \frac{1}{2}(5 \cdot 4)$

$V = B \cdot h$

5

7
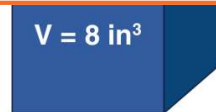
A 80 cm³   8 cm
B 150 cm³   15 cm
C 600 cm³   10 cm
D 1,200 cm³

A 8 in.
B 6 in.
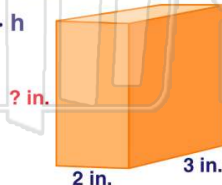C 4 in.   V = 8 in³
D 2 in.

9 A rectangular prism has a volume of 24 in³. If the length is 2 inches and the width is 3 inches, what is the **height**?

$V = \ell \cdot w \cdot h$

A 2 in.
B 3 in.   ? in.
C 4 in.
D 18 in.
              2 in.   3 in.

10 The volume of this figure is 132 cm³. If the width is 4 cm and the height is 3 cm, **what is the length**?

$V = \ell \cdot w \cdot h$

              3 cm
A 8 cm
B 10 cm   4 cm
C 11 cm   ? cm
D 14 cm

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Math

Name_____ Class_____ Date_____

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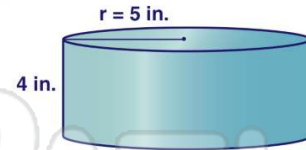
A 2,040 cm³
B 8,400 cm³
C 10,200 cm³
D 20,400 cm³

D

2 Find the **volume** of this cylinder.

$V = \pi \cdot r^2 \cdot h$

r = 5 in.

A 50 in.³
B 100 in.³   4 in.
C 314 in.³
D 625 in.³

C

3 Each small cube has a volume of 1 in.³ What is the **volume of the block shown?**

$V = \ell \cdot w \cdot h$

D

4 What is the **volume** of this triangular prism?

$B = \dfrac{1}{2}(5 \cdot 4)$

$V = B \cdot h$

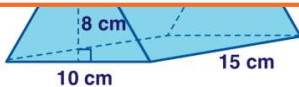**B**

5

A

7

A 80 cm³   8 cm
B 150 cm³
C 600 cm³   10 cm   15 cm
D 1,200 cm³

D

A 8 in.
B 6 in.
C 4 in.   **V = 8 in³**
D 2 in.

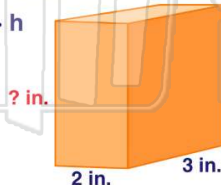**9** A rectangular prism has a volume of 24 in³. If the length is 2 inches and the width is 3 inches, what is the **height**?

$V = \ell \cdot w \cdot h$

A 2 in.
B 3 in.   ? in.
C 4 in.
D 18 in.   2 in.   3 in.

C

10 The volume of this figure is 132 cm³. If the width is 4 cm and the height is 3 cm, **what is the length?**

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3 cm

A 8 cm
B 10 cm   ? cm   4 cm
C 11 cm
D 14 cm

C