Use the prism on the right to answer the questions.
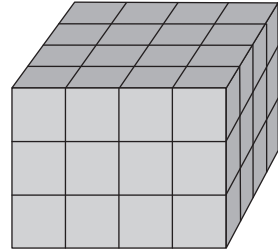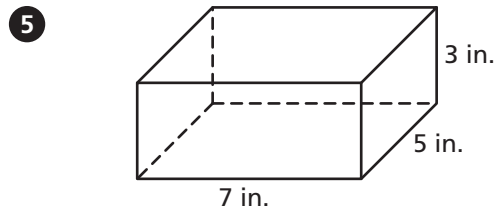
❶ How many cubes are in 1 layer? _____

❷ How many layers are in the prism? _____

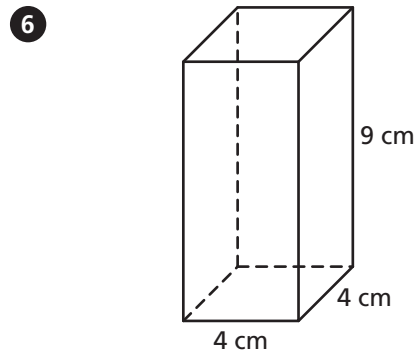❸ Write a multiplication expression for the volume.
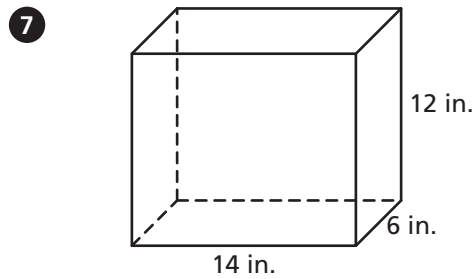
_____

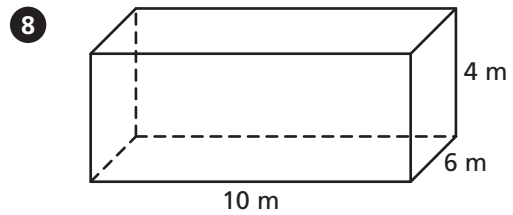❹ What is the volume of the prism? _____

Find the volume.

❺

3 in.

5 in.

7 in.

Volume: _____

❻

9 cm

4 cm

4 cm

Volume: _____

❼

12 in.

6 in.

14 in.

Volume: _____

❽

4 m

6 m

10 m

Volume: _____

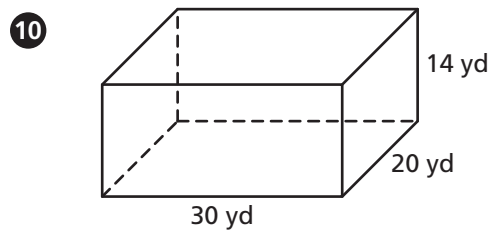❾

10 ft

6 ft

7 ft

Volume: _____

❿

14 yd

20 yd

30 yd
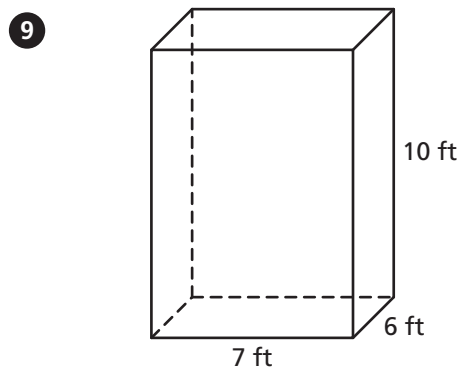
Volume: _____

Name _____ Date _____

Solve. Follow the Order of Operations.

1 $21 - 6 + 3 - 6$

2 $(7.9 - 5.1) \cdot (0.2 + 0.8)$

3 $6 \cdot 10 \div 5$

4 $\frac{1}{5} \cdot \frac{1}{5} \div \frac{1}{5}$

5 $(2\frac{3}{8} - \frac{1}{4}) \times \frac{1}{8}$
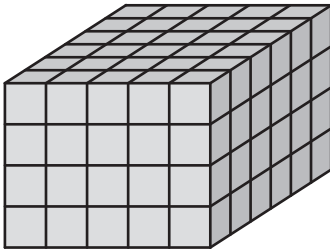
6 $\frac{5}{8} - 3 \cdot \frac{1}{16}$

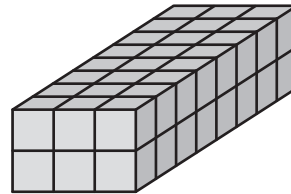**7** $16 \div 0.2 + 15 \div 0.03$

8 $64 \div (6.6 + 1.4) \cdot 2$

9 $0.7 - 0.9 \div 3 + 0.6$

Find the number of unit cubes and the volume.

10

11

Number of unit cubes: _____

Volume: _____

Number of unit cubes: _____

Volume: _____

12 **Stretch Your Thinking** I'm a figure with six layers. Each of my layers is the same. My bottom layer has a perimeter of 28 units, and my volume is between 200 and 300 cubic units. What is my volume?

_____

Visualize Volume