Grade 5, Unit 1, Section C: Additional Practice Problems

1. Which expression(s) can be used to find the volume of the figure?

    Select **all** that apply.
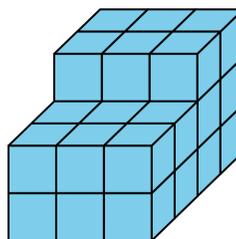
A. (2 × 4 × 3) + (1 × 2 × 3)

B. (3 × 3 × 1) + (2 × 2 × 4)

C. (3 × 3 × 2) + (2 × 2 × 3)

D. (4 × 4 × 2) + (2 × 1 × 3)

E. (3 × 4 × 2) + (2 × 2 × 4)

(From Unit 1, Lesson 8.)

2.   a. Which expression can be used to find the volume of the figure?

A. (3 × 5 × 2) + (5 × 2 × 5)

B. (2 × 5 × 10) + (5 × 2 × 2)

C. (2 × 5 × 5) + (5 × 2 × 2)

D. (2 × 5 × 8) + (5 × 2 × 2)
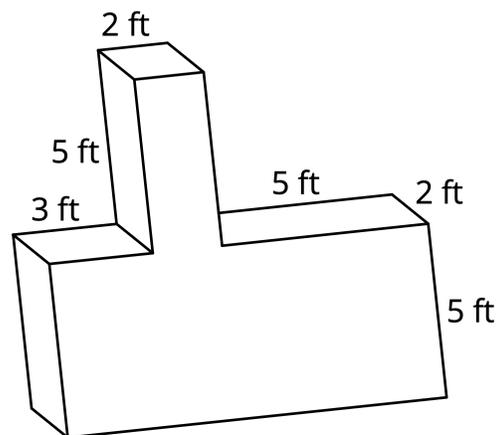
b. What is the volume of the figure?
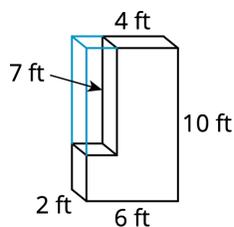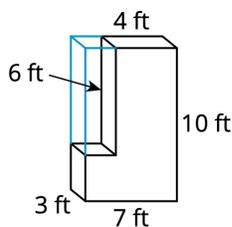
(From Unit 1, Lesson 9.)

3. Which figure's volume can be found using the expression $(10 \times 6 \times 2) - (7 \times 2 \times 2)$?

a.

4 ft
7 ft
10 ft
2 ft
6 ft

c.

4 ft
6 ft
10 ft
3 ft
7 ft

b.

4 ft
2 ft
8 ft
2 ft
6 ft

d.

4 ft
7 ft
7 ft
2 ft
3 ft
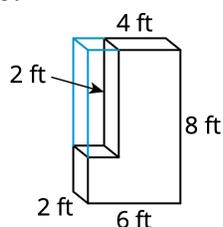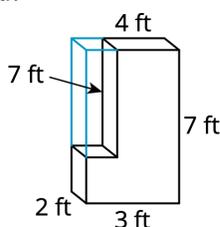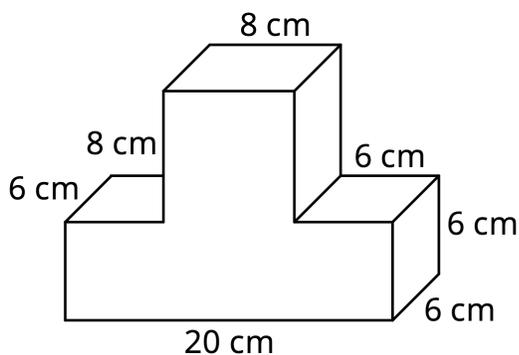
(From Unit 1, Lesson 10.)

4. This is a diagram of a planter box. What is the total volume of the diagram? Explain or show your reasoning.

8 cm
8 cm
6 cm
6 cm
6 cm
6 cm
6 cm
20 cm

(From Unit 1, Lesson 11.)

5. EXPLORATION
Clare creates a design. She wants to double the volume of the design. Clare says she needs to double each dimension, do you agree? Show your reasoning.