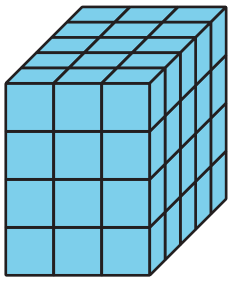
# Finding Volume: End-of-Unit Assessment

1. Select **all** expressions that represent the volume of this rectangular prism in cubic units.



A. $3 \times 4 \times 5$

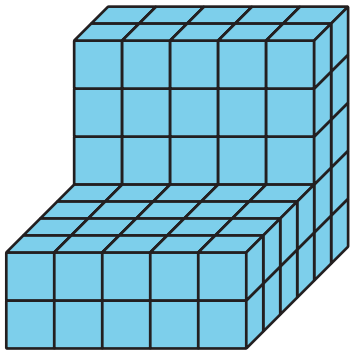
B. $3 + 4 + 5$

C. $20 + 20 + 20$

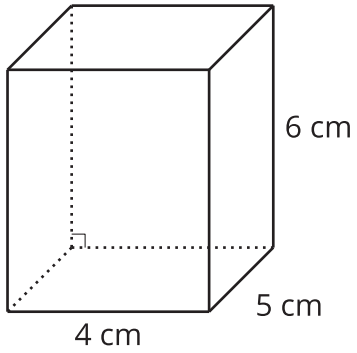
D. $15 \times 15 \times 15 \times 15$

E. $5 \times 12$

2. Find the volume of the figure. Explain or show your reasoning.



3. Select **all** expressions that represent a way to fill the rectangular prism with layers of centimeter cubes for a base.




A. $5 \times 24$

B. $10 \times 12$

C. $8 \times 15$

D. $6 \times 20$

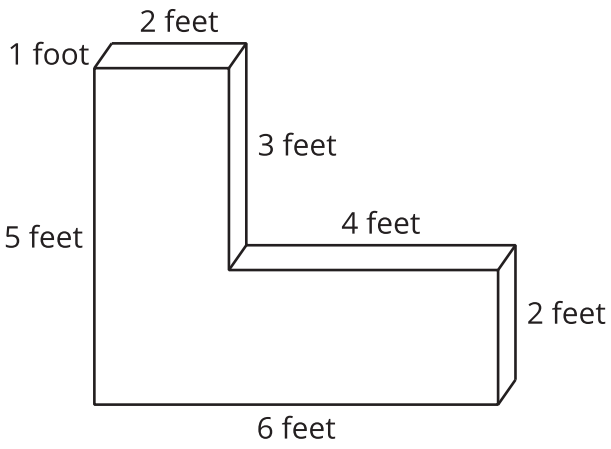
E. $4 \times 30$

4. Find the volume of a rectangular prism with the given side lengths.

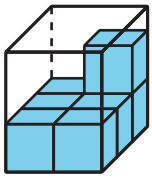
   a. The length is 2 units, the width is 5 units, and the height is 7 units.

   b. The base has an area of 200 square inches and the height is 6 inches.

5. Find the volume of the prism. Explain or show your reasoning.




6. Which statement describes the volume of the rectangular prism in cubic units?



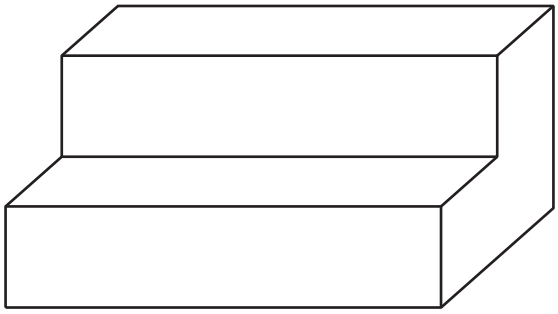
A. The volume is 7 cubic units.

B. The volume is less than 12 cubic units.

C. The volume is 12 cubic units.

D. The volume is greater than 12 cubic units.

7. Mai's class is designing a garden with two levels and this general shape.



- The garden should have at least 200 square feet for the plants.
- The volume should be less than 500 cubic feet.

a. Recommend side lengths for the tiered garden that fit the needs of Mai's class.

b. Label the diagram to show your choices for the side lengths.