Unit 1, Lesson 9

Measure Figures Made from Prisms

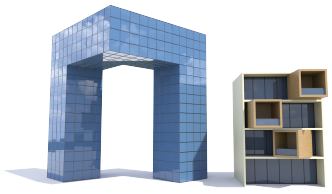
Let's find the volumes of more figures.

Warm-up

Number Talk: Times Ten

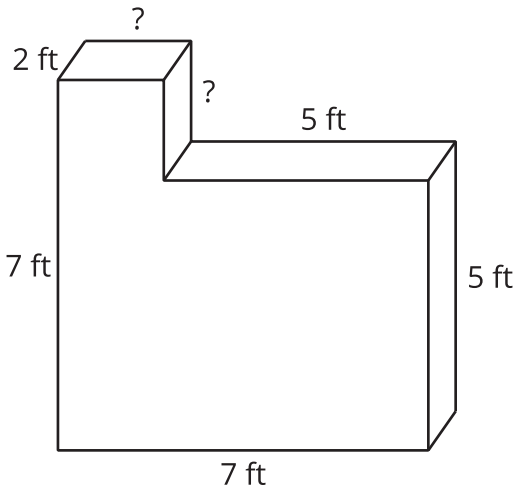
Find the value of each expression mentally.

- 6×2
- $6 \times 2 \times 10$
- $6 \times 20 \times 10$
- $60 \times 20 \times 10$



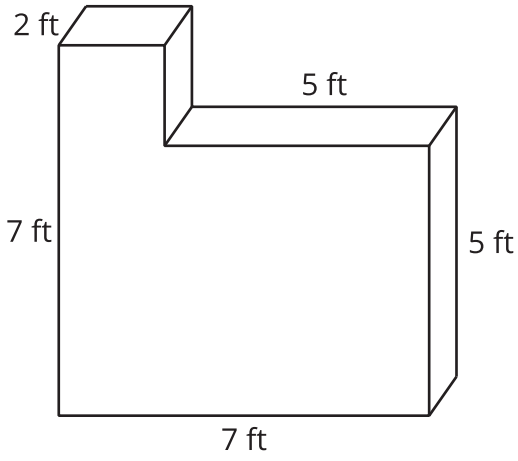
Activity 1

Find the Volumes of Figures



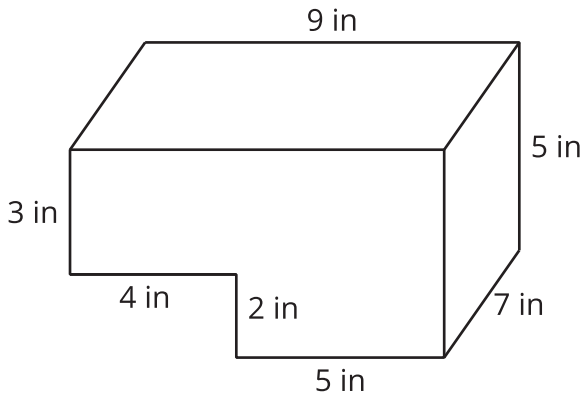
Partner A: Find the volume of Figure 1.

Figure 1



Partner B: Find the volume of Figure 2.

Figure 2

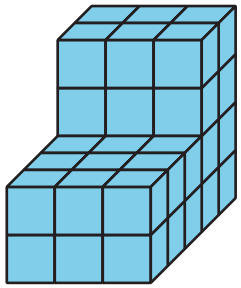


Activity 2

Expressions for the Volume of a Figure

1. Explain how each expression represents the volume of the figure. Show your reasoning. Organize your work so it can be followed by others.

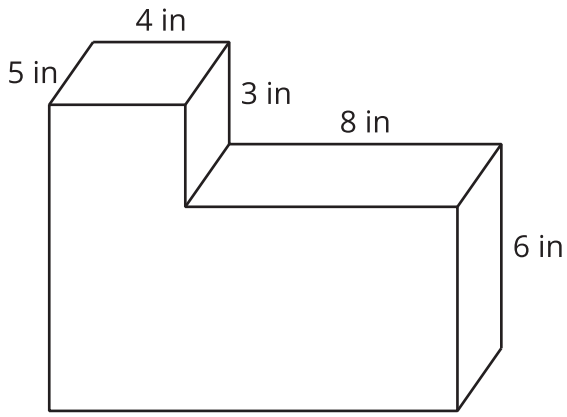
   a. $((2 \times 3) \times 4) + ((3 \times 3) \times 2)$



   b. $(5 \times 6) + (3 \times 4)$

2. How does each expression represent the volume of the prism? Explain or show your reasoning. Organize your work so it can be followed by others.

   a. $(5 \times 8 \times 6) + (5 \times 4 \times 9)$ cubic inches



   b. $(5 \times 4 \times 3) + (5 \times 12 \times 6)$ cubic inches