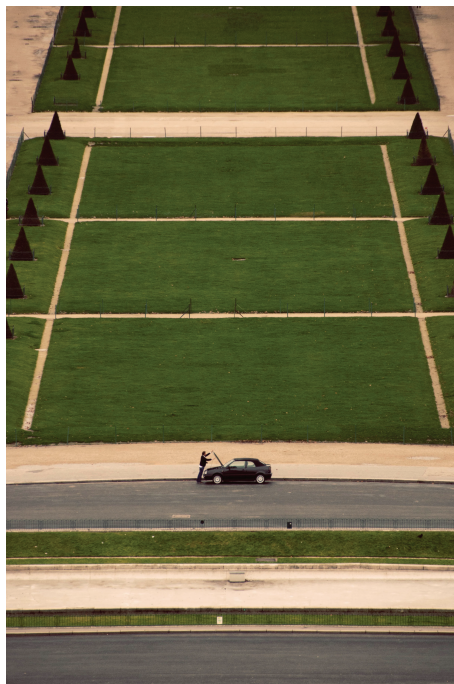# Lesson 15: Find Missing Side Lengths

- Let's use the relationship between multiplication and division to solve problems.

Warm-up: Estimation Exploration: The Garden

What is the area of one of the large rectangles in the garden?

Record an estimate that is:

too low	about right	too high

15.1: Find the Missing Side Length, Part 1

Complete the table.

area (square feet)	length (feet)	width (feet)
816	24	
1,248		48
	23	253
5,796		36

15.2: Find the Missing Side Length, Part 2

1. Complete the table.

volume (cubic feet)	base (square feet)	height (feet)
375	15	
1,176		28

2. Clare wants to find the height of a rectangular prism with the following measurements:

volume (cubic feet)	length (feet)	width (feet)	height (feet)
882	6	7	

a. First, Clare finds the quotient $882 \div 6$. What could she do next to find the height?

b. Find the missing height to finish the problem for Clare.

3. Complete the table.

volume (cubic feet)	length (feet)	width (feet)	height (feet)
936	8		9
1,536		48	2
1,008	36		

Section Summary

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In this section, we learned how to divide multi-digit whole numbers. To find a quotient like $448 \div 16$ we broke 448 down into multiples of 16 and then added these partial quotients.

$$320 \div 16 = 20$$
$$80 \div 16 = 5$$
$$48 \div 16 = 3$$
$$\overline{}$$
$$448 \div 16 = 28$$

Then, we worked with a way to record these calculations that we first saw in an earlier course.

$$
\begin{array}{r}
\boxed{28} \\
3 \\
5 \\
20 \\
16\overline{)448} \\
-320 \quad (20 \times 16) \\
\hline
128 \\
-80 \quad (5 \times 16) \\
\hline
48 \\
-48 \quad (3 \times 16) \\
\hline
0
\end{array}
$$