



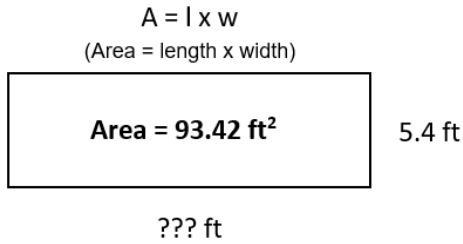
Name: _____

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Moving Things Around

Diagnostic Assessment

Look at the diagram and answer the following question.



James is given the area of the following rectangle as 93.42 ft² and a width of 5.4 ft. How can he use the formula for calculating the area of a rectangle and the given information to find the length of the rectangle? What is the length of the rectangle?

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Moving Things Around

Delivery Trucks – Part 1

Directions: Use the following scenario to answer the questions in Part 1 and 2.

A company uses two different-sized trucks to deliver sand. The first truck can transport x cubic yards and the second y cubic yards. The first truck makes S trips to a job site, while the second makes T trips.



1. What quantities do the following expressions represent in terms of the problem's context?

a. $S + T$

b. $x + y$



Delivery Trucks – Part 2

2. What quantities do the following expressions represent in terms of the problems context?

c. $xS + yT$

d. $\frac{xS+yT}{S+T}$

Name: _____

Date: _____

