

## Problem-Solving Application: Use Formulas

1. Nate installs 324 square feet of carpet in a house.  
The room is 18 feet long. What is the width of the room?

**UNDERSTAND**

What is the question?

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What information do you know?

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**PLAN**

Which formula can you use to find the width  
of the room?

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**SOLVE**

Find the width of the room.

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What shape is the room?

\_\_\_\_\_

**LOOK BACK**

How can you check your answer?

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**Solve.**

2. Store It Yourself offers a stall with 2,000 cubic feet of storage for a low price.  
The ceilings are 8 feet high and the width of the stall is 10 feet. What is the  
length of the stall?

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