Algebra I

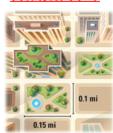
Notes Section 1.5 Use a Problem Solving Plan

Big Ideas

A Problem Solving Plan

- STEP 1 Read and Understand Read the problem carefully. Identify what you know and what you want to find out.
- STEP 2 Make a Plan Decide on an approach to solving the problem.
- **STEP 3** Solve the Problem Carry out your plan. Try a new approach if the first one isn't successful.
- STEP 4 Look Back Once you obtain an answer, check that it is reasonable.

EXAMPLE 1



You run in a city. Short blocks are north-south and are 0.1 mile long. Long blocks are east-west and are 0.15 mile long. You will run 2 long blocks east, a number of short blocks south, 2 long blocks west, and aback to your start. You want to run 2 miles at a rate of 7 miles per hour. How many short blocks must you run?

STEP 4 Look Back

STEP 1 Read and Understand

STEP 3 Solve the Problem

You know	
You want to find out	
STEP 2 Make a Plan	

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Temperature

 $C = \frac{5}{9} (F - 32)$ where F = degrees Fahrenheit and C = degrees Celsius

Simple interest

I = Prt where I =interest, P =principal, r =interest rate (as a decimal), and t =time

Distance traveled

d = rt where d = distance traveled, r = rate (constant or average speed), and t = time

Profit

P = I - E where P = profit, I = income, and E = expenses

EXAMPLE 2

You are making a leather book cover. You need a rectangular piece of leather as shown. Find the cost of the piece if leather costs \$0.25 per square inch.

