Basic Algebra 1.5
Use a four-step plan to solve problems

formula
commutative property
associative property
identity
zero product property
Substitution
distributive property

What are some problem solving strategies?

Problem-Solving Strategies

Look for a pattern.

Draw a diagram.

Make a table.

Work backward.

Use an equation or
  formula.

Make a graph.

Guess and check.

1. **Explore**

2. **Plan**

3. **Solve**

4. **Examine**

$$A = \ell \cdot w$$

Hands-On Algebra
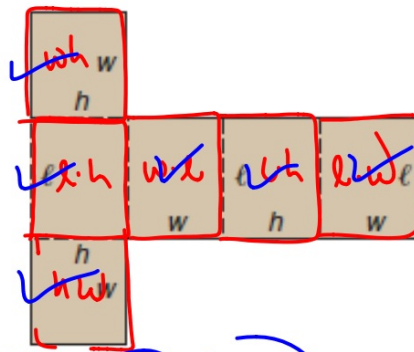
Materials: rectangular box
ruler

Step 1 Label the edges of a rectangular box ℓ, w, or h to represent the length, width, and height of the box.

Step 2 Take the box apart so that it lies flat on the table with the labels face up.

$$\widehat{wh} + \widehat{\ell h} + \widehat{hw} + \widehat{w\ell} + \widehat{\ell h} + \widehat{\ell w}$$

$$2\ell h + 2wh + 2\ell w$$

2 How many ways can you make 25¢ using dimes, nickels, and pennies?

(go to pdf, which one did me miss?)

Phoebe and Hai picked fourteen pints of raspberries in three hours. Hai picked five more pints than Phoebe.

Samples:	Solutions:
How many pints were picked in all?	14
How long did Phoebe and Hai work?	3 hours
Who picked more pints?	Hai
If Phoebe picked x pints, how many did Hai pick?	$x + 5$

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