

using algebra to solve word problems

1**DECLARE VARIABLES**

Use "LET STATEMENTS"
to define your variable.

2**SET UP EQUATION & SOLVE**

Translate into an equation
using your let statements. Then solve

3**DEFINE ANSWER**

Show exactly what the
problem is asking for.

TYPE A: Find "the number"

1. The larger of two numbers is four more than the smaller number. If the sum of the numbers is 74, find the numbers.
2. The larger of two numbers is six less than twice the smaller number. If the sum of the numbers is 42, find the numbers.
3. The larger of two numbers is seven less than three times the smaller number. If the sum of these numbers is 61, find the numbers.

TYPE B: Perimeter of Rectangles **Draw a diagram!

4. The length of a rectangle is six inches more than its width. If the perimeter of the rectangle is 24 inches, find its dimensions.

5. The length of a rectangle is five inches more than four times its width. If the perimeter of the rectangle is 90 inches, find its dimensions.

6. The length of a rectangle is three centimeters less than twice its width. If the perimeter of the rectangle is 18 centimeters, find its dimensions.

7. Kirk has \$12 less than Jim. If Jim spends half of his money, and Kirk spends none, then Kirk will have \$2 more than Jim. How much money did they both start with?