## Four steps to setting up and solving a word problem:

- 1. Define a variable & write an equation
- 2. Solve the equation
- 3. Answer the question in a complete sentence
- 4. Does your answer make sense? Why?

Ex. 1: Jamie bought two quarts of milk and three pints of yogurt for \$4.68. A pint of yogurt costs 1.5 times the price of a quart of milk. How much is a quart of milk?

$$m = price of milk$$
 $y = price of yogurt$ 
 $y = price of yogurt$ 
 $y = price of yogurt$ 
 $y = price of yogurt$ 

A quart of milk costs \$.72.

A pint of yogurt costs \$1.08.

$$2m + 3(1.5 \cdot m) = 4.68$$
  
 $2m + 4.5m = 4.68$   
 $6.5m = 4.68$   
 $6.5m = 72$ 

Ex. 2: I spent \$46 shopping yesterday when I bought a t-shirt, a jacket, and a pair of jeans. The jacket cost twice as much as the t-shirt. The jeans cost 6 dollars more than the t-shirt. How much did each item cost?

t = 10