5.5 Systems of Linear Equations Word Problems

1. Define the variables you want to use.
2. Find information that is in common to build 2 equations with the information. (sometimes drawing a picture might help, or a verbal model)
3. Use graphing, substitution, or elimination method to solve for the variables.
4. Make sure you answer the question being asked (including labels)

Ex. There are a total of 64 students in a drama club and a yearbook club. The drama club has 10 more students than the yearbook club.

a. Write a system of equations that represents this situation.

b. How many students are in the drama club? Yearbook club?

Ex. You sell lemonade for $2 per cup and orange juice for $3 per cup. You sell a total of 100 cups for $240.

a. Write a system of equations that represents this situation.

b. How many cups of lemonade did you sell? Orange Juice?