Systems of Equations: Lesson 6
Word Problems 2: Worksheet

Name: _____

With the wind, a plane flew at an actual speed of 515 mph. Against the wind current, it flew at 435 mph. What is the airplane's speed and the wind speed?

A restaurant costs $2,400 per month to operate. It pays an average of $5 for each meal. The average selling price of each meal is $26. How many meals does it need to sell in a month to break even?

I invested $5,000 into 2 accounts, one earning 8% interest and the other earning 10%. I earned $475 in total interest. How much money did I put into each account?

Challenge:

A lemonade is 20% sugar. Another lemonade is 12% sugar. How many ounces of each solution should be combined to make 15 oz. of lemonade at 18% sugar?

1) **Percents**
   $(\text{percent·amount of it})$: _____ $\cdot x +$ _____ $\cdot y =$ _____ (15)

2) **Amount**
   $x + y = 15$