

NOTES: SYSTEMS OF EQUATIONS

Word Problems

Day 2

STEPS TO SOLVE



_____ your variable(s) $x =$, $y =$, etc.



Write your system of _____



_____ the system of equations.



State your conclusion using “therefore” \therefore .

TYPE 4: COMBINATION OF ITEMS

1. Bill and Ted went to the local “Wings n’ Much More” Restaurant. Bill ordered 5 chicken wings and 4 chicken tenders and paid \$14.25 (before tax). Ted ordered 3 chicken wings and 2 chicken tenders and paid \$7.75 (before tax). What was the cost of a wing?

2. Two soccer teams went to Burger Hut after the game. The first soccer team ordered 12 burgers and 9 hot dogs and spent \$58.50. The second soccer team ordered 15 burgers and 7 hot dogs and spent \$66.75. What was the cost of one burger?

A. _____ SYSTEMS OF EQUATIONS

Word Problems

Day 2

For each problem, identify the variables and write the system of equations needed to solve.

1. Jeremy bought a bouquet of 12 flowers for his mom. Daisies were \$3.50 each and lilies were \$4 each. He spent \$44 total. How many daisies did Jeremy buy?

Identify the variables:

Write the System of Equations:

2. A plumber charges \$20 an hour plus a \$15 flat fee. Another plumber charges \$18 an hour plus a \$30 flat fee. After how many hours will the cost be the same?

Identify the variables:

Write the System of Equations:

3. Your next Algebra test has a mix 20 problems. Some problems are worth 4 points and others are worth 6 points. The test is worth 100 points total. How many of each type of problem are on the test?

Identify the variables:

Write the System of Equations:

4. 250 tickets were sold at Friday's basketball game, bringing in a total of \$725. General admission tickets were \$5 and student tickets were \$2. How many student tickets were sold?

Identify the variables:

Write the System of Equations:

5. The length of a rectangle is three more yards than twice the width. The perimeter is 96 yards. What are the dimensions of the rectangle?

Identify the variables:

Write the System of Equations:

6. The width of a rectangle is five inches less than the length. The perimeter is 26 inches. What is the length of the rectangle?

Identify the variables:

Write the System of Equations:

7. Kelly and Sammie have 47 scrunchies. Kelly has 11 more scrunchies than Sammie. How many scrunchies does each girl have?

Identify the variables:

Write the System of Equations:

8. Jenny and Michael were buying decorations for a party. Jenny bought 4 streamers and 5 packs of balloons and spent \$9.25. Michael bought 2 streamers and 6 packs of balloons and spent \$9. How much was a pack of balloons?

Identify the variables:

Write the System of Equations: