

Name: _____
Systems of Equations Word Problems Day 1

Math A2: Per ____
Date: _____

Steps for solving verbal equations:

Step 1: LET STATEMENT: Use two different variables to represent the different unknown quantities in the problem.

Step 2: Translate the two relationships in the problem into a system of two equations.

Step 3: Solve the system of equations

Step 4: Write your answer in a final sentence

EXAMPLES:

1. The sum of two numbers is 10. Three times the larger decreased by twice the smaller is 15. Find the numbers.

2. A dealer sold 200 tennis racquets. Some were sold at \$18 each and the rest were sold at \$33 each. The total receipts from these sales were \$4,800. How many racquets did he sell at \$18 each?

3. The owner of a men's clothing store bought 6 belts and 8 hats for \$140. A week later, at the same prices, he bought 9 belts and 6 hats for \$132. Find the price of a belt and the price of a hat.

4. In the vote for Smithtown school president, 476 seniors voted for one or the other of the two candidates. The candidate who won had majority of 94. How many seniors voted for the winner?

5. At the mall, 3 pairs of sneakers and 1 pair of jeans cost \$275. Two pairs of sneakers and 1 pair of jeans cost \$200. Find the cost of one pair of sneakers and one pair of jeans.