

Name: \_\_\_\_\_

## **Word Problems: (Set A)**

**\*\*\*Do all work in your notebook or piece of paper. Calculators okay to use.\*\*\***

**For each problem:**

- a) Define the variables**
- b) Write two equations for a system of equations**
- c) Solve by using the substitution method.**

- 1.** You have a total of 21 pens and colored pencils on your desk. You have 3 more pens than colored pencils. How many of each do you have?
  - a) Define the variables
  - b) Write two equations for a system of equations
  - c) Solve by using the substitution method.
  
- 2.** A building has a total of 60 one-bedroom and two-bedroom apartments. There are twice as many one-bedroom apartments as two-bedroom apartments. How many apartments of each type are in the building?
  - a) Define the variables
  - b) Write two equations for a system of equations
  - c) Solve by using the substitution method.
  
- 3.** Justin and Taylor together have \$60. Justin has \$9 more than twice Taylor's amount. How much money does each have?
  - a) Define the variables
  - b) Write two equations for a system of equations
  - c) Solve by using the substitution method.
  
- 4.** There are 812 students in a school. There are 36 more girls than boys. How many girls are there? How many boys?
  - a) Define the variables
  - b) Write two equations for a system of equations
  - c) Solve by using the substitution method.
  
- 5.** The sum of two numbers is 25 and their difference is 7. Find the numbers.
  - a) Define the variables
  - b) Write two equations for a system of equations
  - c) Solve by using the substitution method.
  
- 6.** Will has 30 nickels and dimes worth \$2.40. How many of each coin does he have?
  - a) Define the variables
  - b) Write two equations for a system of equations
  - c) Solve by using the substitution method.