**Assignment: Solving Systems by Substitution**

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period \_\_\_\_\_\_\_\_

**Solve by using substitution. Show Work!**

1. 5.

2. 6.

3. 7.

4. 8.

**Define the variables, write a system and solve.**

9. A rectangle has a perimeter of 18 cm. Its length is 5 cm greater than its width. Find the dimensions.

10. The volleyball club has 41 members. There are 3 more boys than girls. How many girls are there?

11. The number of calories in a piece of pie is 20 less than three times the number of calories in a scoop of ice cream. The pie and ice cream together have 500 calories. How many calories are in each?

12. Mrs. Conner has 4 more students than Mr. Harris. Mrs. Ross has 4 fewer students than Mr. Harris. All together there are 54 students. How many students does each teacher have?