

Word Problems: Systems of Equations

Name: _____

Show all work for credit.

Set up a system of equations for each problem. Then, solve each system using any method.

- Julio bought tables and chairs for his restaurant. He bought 16 total items and spent \$1800. Each table cost \$150 and each chair cost \$50. Let x represent the number of tables and y represent the number of chairs. How many tables and chairs did he buy?
- 2) Mrs. Flips sold 300 cookies for her bake sale. She sold two types of cookies: large chocolate chip and small peanut butter cookies. She charged \$1 for the chocolate chip and 50-cents for the peanut butter cookies and collected \$270 total. How many of each type did she sell?
- 3) Paco's Tacos sold 280 food items from its mobile unit. Only tacos (\$2 each) and burritos (\$3 each) were available. It took in \$660 in sales. How many tacos and how many burritos did it sell?
- 4) Penelope's Printing Press promptly sold 5-cent pencils and 10-cent pens to the public. It sold 1000 writing utensils and took in \$74.50 in sales. How many pens and how many pencils did Penelope's Printing Press sell?