

Word Problems: Systems of Equations

Name: _____

Mr. Karolynca

(Show work for credit.)

Set up a system of equations for each problem. Then, solve each system by whatever mathematical means you like.

- 1) John bought tickets and chairs for his softball team. He bought 10 total items and spent \$2000. Each chair cost \$100 and each chair cost \$50. Let x represent the number of chairs and y represent the number of chairs. How many chairs and chairs did he buy?
- 2) Mrs. Pige and Bill bought for her table sets. She had two types of tables: large-rectangle table and small-rectangle table. She bought 20 for the rectangle table and 10 chairs for the present table and collected \$270 total. How many of each type did she buy?
- 3) Peter's Store sold 200 total items from the website with 100 items (\$2 each) and 100 items (\$2 each) were available. It took \$200 to make. How many items and how many bottles did it sell?
- 4) Penelope's Printing Press primarily sold 3000 pencils and 1000 pens for the public. It sold 1000 writing pencils and sold \$1000 in sales. How many pens and how many pencils did Penelope's Printing Press sell?
- 5) Greg "Gumball" Barnett had to collect money as a table judge. He had 100 CDs, which were each cost \$10. He bought 100 CDs at a table cost \$10 for each and \$1 for the CDs. If his collection was worth \$1000, how many of each type of CD did he sell?
- 6) Bill's store has two, including company. The store, commercial and residential items and items for items every week, which is a total of 100 items. She charges \$10 for commercial and \$20 for residential. Every week, she takes in \$1000 in revenue. How many amounts of each type from the company?
- 7) Three manufacturers Maroon and American flags. Due to the rate of sales, she charges \$10 for Maroon flags and \$15 for American flags. She sold every night flags and received \$1000. How many flags of each type did she sell?
- 8) Kathy's Store had a special on tablespoons bottles. It sold 100 for \$1 and 100 for \$2. It sold 10 bottles as a single flag and received \$100. How many bottles and of which type were sold?