

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 for the small table and collected \$270 total. How many of each type did she buy?
- 3) Peter's Store sold 200 total items from the table with 100 items (\$10 each) and 100 items (\$20 each) were available. It took \$2000 to sell. How many items and how many dollars did it sell?
- 4) Penelope's Printing Press primarily sold 2000 pencils and 1000 pens for the public. It sold 1000 writing pencils and sold \$2000 to sales. How many pens and how many pencils did Penelope's Printing Press sell?
- 5) Greg "Chocolate" Bennett had to collect items as a table judge. He had 100 CDs, which were sold and 100 CDs. He bought 100 CDs at a table rate \$1 for each and \$2 for the 100 CDs. If his collection was worth \$200, 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 \$20 for commercial and \$10 for residential. Every week, she takes in \$2000 in revenue. How many amounts of each type from the company?
- 7) These manufacturers Mexican and American flags. Due to the rate of sales, she charges \$10 for Mexican flags and \$15 for American flags. She sold every night flags and received \$2000. How many flags of each type did she sell?
- 8) Kathy's Store had a special on table-top items. It sold 100 for \$1 and 100 for \$2. It sold 100 items as a single item and received \$200. How many bottles and of which type were sold?