

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 sold two types of tables: large-rectangle table and small-rectangle table. She charged \$1 for the rectangle table and \$100 for the small-rectangle table and collected \$100 total. How many of each type did she sell?
- 3) Peter's Store sold 100 total items from the shelves with 100 items (\$1 each) and 100 items (\$1 each) were available. It took \$100 to make. How many items and how many bottles did it sell?
- 4) Penelope's Printing Press primarily sold 1000 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 "Overlord" Bennett tried to collect items in a table today. He had 100 CDs, which were sold and 100 CDs. He bought 100 CDs at a table rate \$1 for each and \$1 for each CD. If his collection was worth \$100, 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 \$1 for commercial and \$1 for residential items. Every week, she takes in \$100 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 \$1 for Mexican flags and \$1 for American flags. She sold every night flags and received \$100. How many flags of each type did she sell?
- 8) Kathy Store had a special on table-top items. It sold 100 for \$1 and 100 for \$1. It sold 100 bottles in a single day and received \$100. How many bottles and of which type were sold?