

**Word Problems: Systems of Equations**

Name: \_\_\_\_\_

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(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 restaurant. He bought 10 total items and spent \$2000. Each table cost \$100 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. Pige sold 100 cookies for her table sale. She sold two types of cookies: large-diameter chips and small-ginger butter cookies. She charged \$1 for the chocolate chips and \$0.50 for the peanut butter cookies and collected \$170 total. How many of each type did she sell?
- 3) Peter's Store sold 100 total items from the website with 400 items (\$2 each) and 100 items (\$1 each) more available. It took \$100 to ship. How many items and how many dollars did it sell?
- 4) Penelope's Printing Press primarily sold 3 main products and 10 more items to the public. It sold 1000 printing sheets and took \$100.00 to ship. How many pens and how many pencils did Penelope's Printing Press sell?
- 5) Greg "Overlord" Bennett tried to shuffle cards in a club tonight. He had 40 CDs, which were rock and reg CDs. He bought his CDs at a table rate \$4 for rock and \$2 for reg CDs. If his collection was worth \$100, how many of each type of CD did he own?
- 6) 100 items for one, including company. The items accounted and mathematical items and items the items every week, which is a total of 100 items. She charges \$40 for accounted and \$20 for mathematical accounts. Every week, she takes \$100 to account. How many accounts of each type from the company?
- 7) These manufacturers Mexican and American flags. Due to the rate of sales, she charges \$20 for Mexican flags and \$15 for American flags. She sold every night flags and accounted \$400. How many flags of each type did she sell?
- 8) Kaitie Store had a special on tablespoons bottles. It sold 20 for \$1 and 100 for \$2. It sold 40 bottles in a single day and received \$100. How many bottles and of which type were sold?