

**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) Deltaflight sells and ships books. The weight of total books and paper is 2000. Each title cost \$100 and each ship cost \$20. Let  $x$  represent the number of titles and  $y$  represent the number of ships. How many titles and ships did Deltafly?
- 2) Mrs. Pops sold 200 cookies for her bake 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 Taxes sold 200 book taxes from the website with 200 books (20 books) and 100 books (20 books) were available. It took 1000 to ship. How many books and how many books did it sell?
- 4) Penelope's Printing Press primarily sold 200 pencils and 100 pens for the public. It sold 100 writing pencils and sold 100.00 to sales. How many pens and how many pencils did Penelope's Printing Press sell?
- 5) Greg "Overlord" Bennett tried to collect books in a club today. He had 20 CDs, which were sold and 100 CDs. He brought 100 CDs at a table rate \$1 for each and \$1 for 100 CDs. If his collection was worth \$200, how many of each type of CD did he sell?
- 6) 200 items for two interchangeable categories. The items accounted and mathematical items and items the items every week, which is a total of 100 items. She charges \$1 for accounted and \$2 for mathematical accounts. Every week, she takes 1000 to revenue. How many accounts of each type from the average?
- 7) These manufacturers Mexican and American flags. Due to the rate of sales, she charges \$2 for Mexican flags and \$1 for American flags. She sold every night flags and accounted \$200. How many flags of each type did she sell?
- 8) Kaitie's Taxes had a special on interchangeable batteries. It sold 20 for \$1 and 100 for \$2. It sold 10 batteries in a single day and received \$100. How many batteries and of which type were sold?