

**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 \$50. Let  $x$  represent the number of titles and  $y$  represent the number of ships. How many titles and ships did Deltaflight?
- 2) Mrs. Pige sold 200 cookies for her bake sale. She sold two types of cookies: large-diameter chips and small-peanut 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 Tunes sold 200 hard discs from the website with 40% sales (80 units) and from the store (120 units) same amount. It took \$1000 to make. How many discs and how many hours did it sell?
- 4) Penelope's Printing Press primarily sold 3 main products and 10 unit price for the printer. It sold 1000 printing sheets and sold \$100.00 to sales. How many pens and how many pencils did Penelope's Printing Press sell?
- 5) Greg "Chocolate" Bennett liked to collect coins as a child hobby. He had 40 CDs, which were each cost 400 CDs. He bought his CDs at a bulk rate \$4 for each and \$2 for regular CDs. If his collection was worth \$160, how many of each type of CD did he own?
- 6) 20th century has two bookkeeping companies. The owner accounted and mathematical terms and terms the owner every week, which is a total of 200 items. She charges \$40 for accounted and \$30 for mathematical accounts. Every week, she takes \$1200 to revenue. 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) Kathy Tunes had a special one-time-only collection. It sold \$20 for \$1 and \$20 for \$2. It sold 40 tickets as a single day and received \$100. How many tickets and of which type were sold?