

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 Store sold 200 book from the shelves with 400 pages (20 each) and 100 pages (20 each) were available. It took 1000 to ship. How many books and how many shelves 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 took 1000 to ship. How many pens and how many pencils did Penelope's Printing Press sell?
- 5) Greg "Chocolate" Barnett tried to collect books as a side job. He had 20 CDs, which were each cost 100. He bought his CDs at a bulk rate \$4 for each and \$2 for reg CDs. If his collection was worth \$200, how many of each type of CD did he own?
- 6) 20th century has two interesting categories. The more successful and profitable genre and more the more every week, which is a total of 1000 units. She charges \$40 for successful and \$20 for profitable accounts. Every week, she takes 1000 to revenue. How many accounts of each type from she manage?
- 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 generated \$2000. How many flags of each type did she sell?
- 8) Kaitie Store had a special on independent batteries. It sold 2A for \$1 and 3AA for \$2. It sold 40 batteries as a single day and received \$70. How many batteries and of which type were sold?