

**Word Problems: Systems of Equations**

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

Mr. Karimova

(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 flight of total books sold was 2000. Each title cost \$10 and each ship cost \$5. Let  $x$  represent the number of titles and  $y$  represent the number of ships. How many titles and ships did they sell?
- 2) Mrs. Pige sold 100 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 \$70 total. How many of each type did she sell?
- 3) Peter's Store sold 100 book boxes. The shelves with 200 books (20 books) and shelves (20 books) were available. It took \$100 to ship. How many boxes and how many shelves did it sell?
- 4) Penelope's Printing Press primarily sold 3000 pencils and 1000 pens to the public. It sold 1000 writing tablets and took \$1000 to ship. How many pens and how many pencils did Penelope's Printing Press sell?
- 5) Greg "Overlord" Bennett had to collect books as a side job. He had 100 CDs, which were sold and reg CDs. He brought CDs at a rate of \$1 for each and \$2 for reg CDs. If his collection was worth \$100, how many of each type of CD did he sell?
- 6) 1000 were her own, independent company. She wrote commercial and mathematical books and wrote the books every week, which is a total of 1000 books. She charges \$20 for commercial and \$30 for mathematical books. Every week, she takes \$1000 to return. How many amounts of each type does she average?
- 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 received \$1000. How many flags of each type did she sell?
- 8) Kaitie Store had a special on independent books. It sold 100 for \$1 and 1000 for \$2. It sold 1000 books as a single day and received \$100. How many books and of which type were sold?