

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 and ships \$2000. Each book cost \$10 and each ship cost \$20. Let x represent the number of books and y represent the number of ships. How many books and ships did Deltaflight?
- 2) Mrs. Pige sold 100 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 100 book from the shelves with 400 pages (20 each) and 100 pages (10 each) were available. It took \$100 to ship. How many books and how many shelves did it sell?
- 4) Penelope's Printing Press primarily sold 3 cent pencils and 10 cent pens to the public. It sold 100 writing utensils and took \$10.00 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 brought 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) 10th grade has two interlocking programs. The science department and mathematics course each covers the course every week, which is a total of 100 lessons. She charges \$40 for mathematics and \$20 for mathematical sciences. Every week, she takes in \$3000 in revenue. How many amounts of each type from the program?
- 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 accumulated \$4000. How many flags of each type did she sell?
- 8) Kaitie Stone had a special one-time-only sale for her. It sold 20 for \$1 and 100 for \$2. It sold 40 tickets in a single day and received \$100. How many tickets and of which type were sold?