

Answer the questions in the spaces provided on the question sheets. If there is no solution, write no solution. Be sure to **show your work to earn full credit**. You **MAY** use a calculator to help you. If you run out of room for an answer, raise your hand to ask for an extra piece of paper.

Name and period: \_\_\_\_\_

- 1) What is one thing that you will do to be successful in math class during the next three weeks?
- 4) Suppose you want to save \$300 to buy a gift in the next 12 weeks. Suppose your friend is also going to save money each week. How much money do you and your friend each need to save? Let  $m$  be how much you need to save and let  $f$  be how much your friend needs to save. Put your answers in the table.
- 2) One quantity that I care about and that can change is...
- 3) You want to save \$200 to buy a gift for a friend. Suppose you have \$80, and you earn \$10 every week for an allowance. How many weeks will it take to earn enough money?
- 5) Find pairs of numbers  $x$  and  $y$  that are solutions to the equation  $12x + 12y = 300$ .

- 6) Find pairs of numbers  $x$  and  $y$  that are solutions to the equation  $6x + 2y = 24$ .
- 7) Each book in a store costs \$8, and each pen costs \$4. You want to spend exactly \$24. Let  $b$  be the number of books and let  $p$  be the number of pens that you buy. Make a table with 3 pairs of values that you could use.
- 8) Make a table of numbers  $x$  and  $y$  that are solutions to the equation  $5x + 10y = 75$ .
- 9) Each pair of socks in a store costs \$6, and each pair of gloves costs \$12. If you want to spend exactly \$48, Let  $s$  be the number of books and let  $g$  be the number of pens that you buy. Make a table with 3 pairs of values of  $s$  and  $g$  that would work.
- 10) Louisa has \$36 in five-dollar bills and singles. Make a table to show how many of each type she could have. Let  $f$  stand for the number of five-dollar bills and let  $s$  stand for the number of singles.