Name_____

SYSTEM OF EQUATIONS-WORD PROBLEMS #2

Directions: Find the answers to each situation below by setting up and solving a *system of equations*.

1) William bought some tickets to see his favorite singer. He bought some *adult* tickets and some *children's* tickets, for a total of 15 tickets. The adult tickets cost $30 per ticket, and the children's tickets cost $20 per ticket. If he spent a total of $270, then how many adult and children's tickets did he buy?

   a + c = 15
   30a + 20c = 270

   a = _____

   b = _____

2) Ava's school took a field trip. A total of 32 vehicles were needed for the trip. Some students took the *bus*, and some students *car*-pooled. There were 27 people on each bus and 3 people in each car. 408 people altogether attended the trip. How many buses and cars were needed for the trip?

   b = _____

   c = _____

3) Liam's football team scored a total of 43 separate times this season, with a mix of *touchdowns* and *field goals*. Each touchdown is worth 7 points, and each field goal is worth 3 points. If the team scored a total of 301 points this season, how many touchdowns and field goals did they score?

   t = _____

   f = _____

4) Emily went to the movie theater for her birthday. A mix of adults and children attended, making a total of 22 people. Each adult ticket was $9 and each child's ticket was $5.50. If the total cost for the party was $125.50, then how many adults and how many children attended?

   a = _____

   c = _____

5) Michael's class held a food drive for the holidays. There are a total of 29 students in his class. On average, each *boy* and each *girl* brought in 3 cans of food apiece. If the class brought in a total of 87 cans of food, how many boys and how many girls are in the class?

   b = _____

   g = _____

6) Ava's family drove to Disney Land for spring break. Her *mom* and *dad* shared the driving duties for a total of 24 hours. Her mom drove 75 miles per hour, and her dad drove 60 miles per hour. If they drove a total of 1,710 miles, how many hours did each person drive for?

   m = _____

   d = _____