Math 7 Period	Name
7.6.11 Homework Set	Date

- 1. Find the value of each variable. (from Unit 5, Lesson 9)
  - A.  $a \cdot 3 = -30$  C.  $-8 \cdot 12 = c$
  - B.  $-9 \cdot b = 45$ D.  $d \cdot 88 = -88,000$
- 2. Match each equation to its solution and to the story it describes.

Equations:		Solutions:	
a.	5x - 7 = 3	w.	-4
b.	7 = 3(5 - x)	х.	<u>8</u> 3
С.	3x + 5 = -7	у.	2
d.	$\frac{1}{3}(x+7) = 5$	Z.	8

Stories:

- The temperature is -7. Since midnight the temperature tripled and then rose
  5 degrees. What was temperature at midnight?
- Jada has 7 pink roses and some white roses. She gives all of them away,  $\frac{1}{3}$  of them to each of her 3 favorite teachers. Each teacher gets 5 roses. How many white roses did she give away?
- A musical instrument company reduced the time it takes for a worker to build a guitar. Before the reduction it took 5 hours. Now in 7 hours they can build 3 guitars. By how much did they reduce the time it takes to build each guitar?
- A club puts its members into 5 groups for an activity. After 7 students have to leave early, there are only 3 students left to finish the activity. How many students were in each group?

3. The baby giraffe weighed 132 pounds at birth. He gained weight at a steady rate for the first 7 months until his weight reached 538 pounds. Write an equation and use properties of operations and/or operations to find out how much did he gain each month?

4. Six teams are out on the field playing soccer. The teams all have the same number of players. The head coach asks for 2 players from each team to come help him move some equipment. Now there are 78 players on the field. Write an equation and use properties of operations and/or operations to calculate the number of players on each team.