

Homework #2: Due Friday, Sept. 20

Name _____

Buckley or Gietzen

1. List all the **factors** of 10 and 40.

10: _____

40: _____

What is the **greatest** common *factor* of 10 and 40? _____

List a different common *factor* of 10 and 40. _____

2. List all the **factors** of 12 and 36.

12: _____

36: _____

What is the **greatest** common *factor* of 12 and 36? _____

List a different common *factor* of 12 and 36. _____

3. List the first eight **multiples** of 6 and 8.

6: _____

8: _____

What is the **least** common *multiple* of 6 and 8? _____

List a different common *multiple* of 6 and 8. _____

4. List the first eight **multiples** of 3 and 5.

3: _____

5: _____

What is the **least** common *multiple* of 3 and 5? _____

List a different common *multiple* of 3 and 5. _____

5. One radio station broadcasts a weather forecast every **24 minutes** and another station broadcasts a commercial every **9 minutes**. If the stations broadcast both a weather forecast and a commercial at noon, how many minutes will pass before they both broadcast the weather and a commercial at the same time again?

6. Miriam's uncle donates **48** fruit snacks and **60** packs of cheese crackers for a class picnic. Each student must receive the same number of fruit snacks and the same number of packs of crackers with no leftovers.

a. What is the **greatest** number of students who can come to the picnic and share the food equally? *(Remember, no leftovers!)*

b. How many fruit snacks and packs of crackers will each student receive?
fruit snacks crackers

7. Given the following sets of numbers, write as many different multiplication and division statements as you can. *For example, if the numbers are 5, 7, 35, you can write:*

$5 \times 7 = 35$

$7 \times 5 = 35$

$35 \div 5 = 7$

$35 \div 7 = 5$

a. 9, 8, 72	b. 15, 5, 30, 2, 3	c. 6, 36, 12, 4, 3, 9
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