Homework #1: Due Friday, Sept. 13

Name_____

Buckley or Gietzen

For #1-6: Fill in the blanks below using the word bank. Use each word only once.

1. A _____ number has two factors: one and itself.

2. _____ are numbers we can multiply together to get another number.

3. A _____of a number is the product of that number and another whole number. We also call this "skip-counting."

4. A _____ number has three or more factors.

5. Once you know one factor of a number, you can find another factor. For example, 3 is a factor of 12, and because 3 x 4 = 12, 4 is also a factor of 12. We call 3 & 4 a _____ of 12.

6. A _____ number is the product you get when you multiply a number by itself.

Word Bank:
square
composite
prime
factor pair
multiple
factors

7. List **all** of the <u>factor pairs</u> for each of the following numbers.

50	11	35	16

8. One example of a square number is 9, because you can multiply 3 x 3 to get 9 and a 3x3 rectangle is a square. List at least **three** more square numbers below:

9. List the first six **PRIME** numbers: _____ _____ _____ _____ _____ _____

10. "Angie" and "Michael" are the names for two lighthouses that guard a part of the coast. Angie blinks **every 6 seconds** and Michael blinks **every 9 seconds**. They blink together at midnight. **How many seconds** will pass before they blink together again?

11. a. List all the **factors** of 16 and the **factors** of 28.
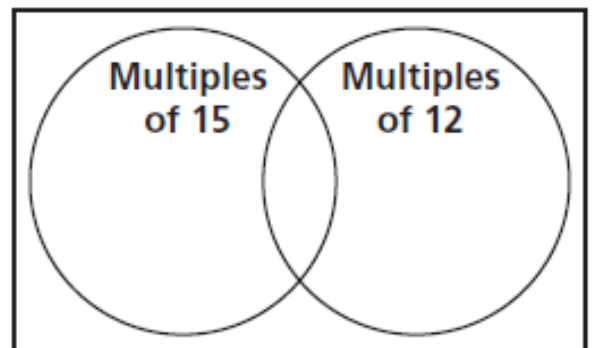
16: _____

_____

28: _____

_____

b. Complete the Venn diagram at the right. →

Factors of 16   Factors of 28
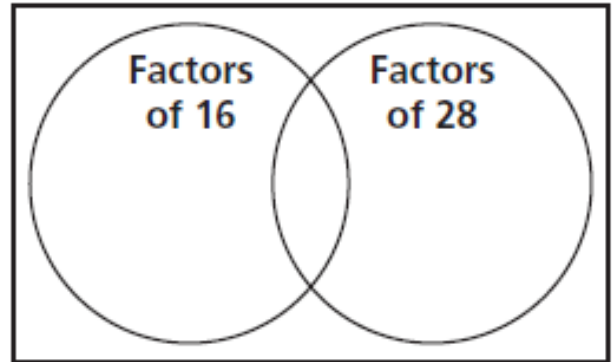
c. What is the **greatest common factor** of 16 and 28?_____

12. a. List the first five multiples of 15 and the first five multiples of 12.

15: _____

12: _____

b. Complete the Venn diagram at the right. →

Multiples of 15   Multiples of 12

c. What is the **least common multiple** of 15 and 12?_____