Lesson 1 ~ Greatest Common Factor

Name_____ Period_____ Date_____

List the factors of each number. State whether each number is prime or composite.

1. 6

2. 9

3. 10

4. 13

5. 17

6. 12

Use a Venn diagram, list or prime factorization to find the greatest common factor of each set of numbers.

7. 3, 9

8. 12, 16

9. 15, 25

10. 14, 35

11. 8, 12, 16

12. 18, 24, 36

13. Courtney has 27 chocolate chip cookies and 36 oatmeal raisin cookies. She needs to arrange them on trays. She doesn't want to combine either type of cookies and she wants the same number on each tray. What is the largest number of cookies she can have on each tray?

14. Andrew has 48 country CDs and 72 rock CDs. He wants to arrange them on shelves so that the two types of CDs are separate, but he wants the largest number of CDs on a shelf as possible. How many CDs should he put on each shelf?

15. The agriculture class is selling flowers. They want to arrange them so that they are all in equal rows with no row containing different types of plants. Using the numbers from the table provided, what is the largest number of plants they can put in each row?

Marigolds	Pansies	Primroses
48 pots	24 pots	36 pots