Math 215 Name _____
LCM and GCF Homework

For all problems, you are expected to use the methods we have used in class, and you are expected to show your work.

Assume all variables represent counting numbers.

1. Name four pairs of different numbers that have an LCM of 72.

2. Find GCF (330, 1050)

3. Find LCM (525, 693)

4. Find GCF (12, 20)

5. Find LCM (12, 36)

6. Find GCF (100, 80)

7. Find GCF (25, 75)

8. Find LCM (11, 23)

9. Find GCF (31, 43)

10. State whether each statement is true or false:

    a) If LCM(x, y) = 16, then y is a factor of 16.

    b) If a and b are relatively prime, then GCF(a, b) = ab.

    c) If GCF(m, n) = 6, then n is a factor of 6.

11. Name two numbers between 200 and 1000 that have a GCF of 9.

12. Evaluate:

    a) GCF (x, $3x$) =

    b) LCM (b, $4b$) =

    c) GCF (a, $4a^2$) =

    d) LCM (n, 1) =

13. Name three pairs of numbers x and y, so that $x \neq y$, neither x nor y is a multiple of 7, and GCF(x, y) = 4.

14. If 8 is a factor of m, what other numbers must be factors of m?

15. If a and b are relatively prime, what is GCF(a, b)?

16. If a and b are relatively prime, what is LCM(a, b)?

17. Name three pairs of different odd numbers that have a GCF of 21.