Factoring worksheet #1

Instructions: find the greatest common factors of the following numbers:

1. 35 _____ ___
   10 _____

2. 36 _____ ___
   8 _____

3. 46 _____ ___
   16 _____

4. 44 _____ ___
   33 _____

5. 5 _____ ___
   25 _____

6. 7 _____ ___
   42 _____

7. 14 _____ ___
   35 _____

8. 42 _____ ___
   27 _____

9. 40 _____ ___
   20 _____

10. 22 _____ ___
    11 _____

11. 48 _____ ___
        _____
    24 _____
        _____

12. 14 _____ ___
    48 _____

Instructions: find the least common multiple of the following numbers:

1. 2 _____ ___
   6 _____

2. 4 _____ ___
   22 _____

3. 6 _____ ___
   8 _____

4. 18 _____ ___
   7 _____

5. 25 _____ ___
   _____
   6 _____

6. 17 _____ ___
   23 _____

7. 6 _____ ___
   24 _____

8. 17 _____ ___
   11 _____

9. 2 _____ ___
   9 _____

10. 15 _____ ___
    27 _____
    _____

11. 28 _____ ___
    _____
    18 _____

12. 18 _____ ___
    16 _____

13. 4 _____ ___
    5 _____

14. 3 _____ ___
    2 _____

15. 6 _____ ___
    7 _____

16. 14 _____ ___
    26 _____
    _____

Problems

Instructions: solve the following problems with the GCF or LCM.

1. At the gym, Hillary swims every 6 days, runs every 4 days and cycles every 16 days. If she did all three activities today, in how many days will she do all three activities again on the same day?

2. Oscar needs to ship 14 rock CDs, 12 classical CDs, and 8 pop CDs. He can pack only one type of CD in each box and he must pack the same number of CDs in each box. What is the greatest number of CDs Oscar can pack in each box?

3. I want to plant 45 sunflower plants, 81 corn plants and 63 tomato plants in my garden. If I put the same number of plants in each row and each row has only one type of plant, what is the greatest number of plants I can put in one row?

4. Cups are sold 6 to a package and plates are sold 8 to a package. If you want to have the same number of each item for a party, what is the least number of packages of each you need to buy?

5. A full moon occurs every 30 days. If the last full moon occurred on a Friday, how many days will pass before a full moon occurs again on a Friday?