

Name: _____
Section: _____

Greatest Common Factor & Least Common Multiple Practice

Solve each problem.

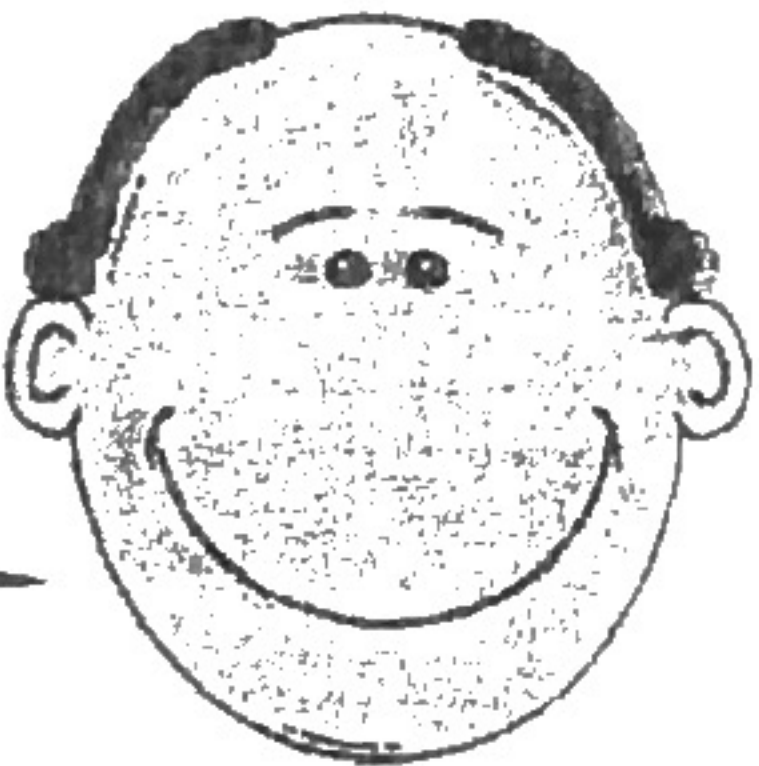
1. Magellan has decided to make party baskets for the fund raiser. Balloons are sold in bags of 20, party horns are sold in bags of 10, and there are 8 candy bars in a package. How many of each should he buy so there are an equal number of balloons, horns and candy bars in each basket?
2. A radio station is having a promotion in which every 12th caller receives a free concert ticket and every 15th caller receives a limo ride. Which caller will be the first one to win both?
3. Cups are sold 5 to a package and plates are sold 10 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?
4. Tony needs to ship 12 comedy DVDs, 24 animated DVDs, and 30 musicals. He can pack only one type of DVD in each box and he must pack the same number of DVDs in each box. What is the greatest number of DVDs Tony can pack in each box?
5. Mei has 15 oranges, 9 peaches and 18 pears. She wants to put all of the fruit into baskets with each basket having the same number of pieces of fruit in it. Without mixing the fruit, what is the greatest number of pieces of fruit Mei can put in each basket?

Thinking of Two Numbers

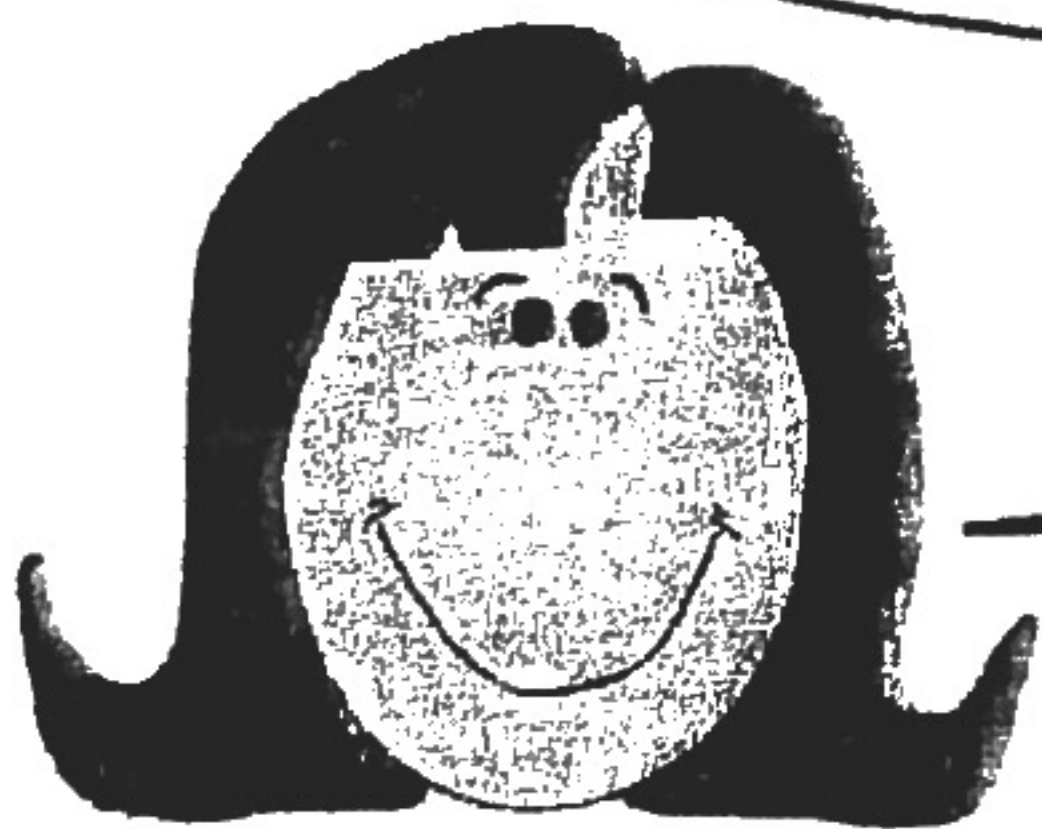
1. What is the *greatest common factor* of 15 and 25?
2. What is the *least common multiple* of 15 and 25?
3. In your own words, try to explain how you can find the *greatest common factor* (GCF) of any two numbers. (Use an example to explain your method, if you find it helps.)

4. In your own words, try to explain how you can find the *least common multiple* (LCM) of any two numbers. (Use an example to explain your method, if you find it helps.)

5. Moses and Leillah are playing a game called "Guess My Numbers".



I am thinking of two numbers.
Their *greatest common factor* (GCF) is 2.
Their *least common multiple* (LCM) is 60.



Your numbers must be 10 and 12.

Is Leillah right?

If you agree with Leillah, explain how you know that these numbers, and only these numbers, work. If you disagree, find *all possible pairs* of numbers that Moses might be thinking of.
