

**1.5/1.6****GCF and LCM Word Problems**

Name \_\_\_\_\_ Period \_\_\_\_\_

**Step 1: Read each problem and write GCF (Greatest Common Factor) or LCM (Least Common Multiple) in the box to show that you know the strategy it needs. Step 2: Work out the problem. (Use the cake method for GCF and the List Method for LCM). In your answer, be sure to include the *unit of measure* (e.g. inches, miles, dogs, cakes).**

1. Rowan has two pieces of cable, one 15 feet long and the other 12 feet long. For a science project, he wants to cut them up to produce many pieces of cable that are all of the same length, with no cable left over. What is the greatest length, in feet, that he can make them?

2. Matthew goes hiking every 12 days and swimming every 9 days. He did both kinds of exercise today. How many days from now will he go both hiking and swimming again?

3. A family is preparing backpacks filled with school supplies to donate to children in need. They have 195 pencils and 105 notebooks. If they want to make all the backpacks the same, with no school supplies left over, what is the greatest number of backpacks they can fill?

4. Janelle is making flower arrangements. She has 36 roses and 42 daisies. If Janelle wants to make all the arrangements identical and have no flowers left over, what is the greatest number of flower arrangements she can make?

5. The school cafeteria serves tacos every sixth day and cheeseburgers every eight day. If tacos and cheeseburgers are both on today's menu, how many days will it be before they are both on the menu again?

6. Two clocks are turned on at the same time. One clock chimes every 15 minutes. The other clock chimes every 25 minutes. In how many minutes will they chime together?

7. Raymond has collected 45 T-shirts and 60 buttons from his favorite band. He wants to combine them into identical sets to sell, with no pieces left over. What is the greatest number of sets Raymond can make?