Name: _____ Class: __ Date: _____

GCF and LCM WORD PROBLEMS

Read each problem and write GCF (Greatest Common Factor) or LCM (Least Common Multiple) in the box to show that you understand the strategy it needs. On a separate piece of paper show your working out, with the number of the question. Record your answers on *this* sheet, including your *unit of measurement* (e.g., inches, miles, dogs, cakes).

1. Joanne is campaigning for class president and plans to distribute some campaign materials: 20 flyers and 16 buttons. She wants each classroom to receive an identical set of campaign materials, without having any materials left over. What is the greatest number of classrooms Joanne can distribute materials to?

   _____

2. Serena wants to create snack bags for a trip she is going on. She has 6 granola bars and 10 pieces of dried fruit. If the snack bags should be identical without any food left over, what is the greatest number of snack bags Serena can make?

   _____

3. Matthew goes hiking every 12 days and swimming every 6 days. He did both kinds of exercise today. How many days from now will he go both hiking and swimming again? _____

4. Mandy is making emergency-preparedness kits to share with friends. She has 12 bottles of water and 16 cans of food, which she would like to distribute equally among the kits, with nothing left over. What is the greatest number of kits Mandy can make? _____

5. Edeena is packing equal numbers of apple slices and grapes for snacks. Edeena bags the apple slices in groups of 18 and the grapes in groups of 9. What is the smallest number of grapes that she can pack?

   _____

6. A club has 16 girls and 8 boys as members. The president wants to break the club into groups, with each group containing the same combination of girls and boys. The president also wants to make sure that no one is left out. What is the greatest number of groups the president can make?

   _____

7. Ariel is making flower arrangements. He has 7 roses and 14 daisies. If Ariel wants to make all the arrangements identical and have no flowers left over, what is the greatest number of flower arrangements that he can make?

   _____

8. Wilma is thinking of a number that is divisible by both 17 and 8. What is the smallest possible number that [illegible]

   _____

LIVEWORKSHEETS