

# Problem Solving With LCM & GCF

Determine whether you will need to find the LCM or GCF for each of the problems shown. **CIRCLE THE WORD OR PHRASE THAT IDENTIFIES THIS FOR YOU.** Show your work in the space provided and circle your final answer.

Problem	LCM or GCF	Work & Answer	Apply it!
<p>1. Frank is buying hot dogs for a class picnic. Hot dogs are sold in packages of 12. Buns are sold in packages of 8. What is the smallest number of hot dogs and buns Frank can buy to have an equal number of each?</p>			<p>How many packages of hot dogs does he need?</p>
<p>2. Emma is packaging up presents to give to her friends. She has 45 pencils and 36 stickers. All of the packages need to contain the same amounts of stickers and the same amount of pencils. What is the greatest number of packages that she can make?</p>			<p>How many stickers will be in each present?</p>
<p>3. Mr. Evans has 20 crayons and 30 pieces of paper to give to his students. What is the largest numbers of students he can have in his class so that each student gets an equal number of crayons and an equal number of paper?</p>			<p>How many pieces of paper will each student receive?</p>
<p>4. Taylor wants to make candy bags for a birthday treat. Snickers come in packs of 6 and Reese's come in packs of 4. What is the least number of bags he can prepare with one of each in every bag with no candy left over?</p>			<p>How many packs of Reese's does he need to buy?</p>
<p>5. Two bikers are riding a circular path. Harley completes a round in 24 minutes. David completes a round in 18 minutes. If they both started at the same place and time and go in the same direction, after how many minutes will they meet again at the starting point?</p>			<p>How many laps did Harley complete?</p>

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Period: \_\_\_\_\_

Problem	LCM or GCF	Work & Answer	Apply it!
6. Hetty is making identical gift baskets for the senior citizens center. She has 105 fidget spinners and 60 cans of Silly String. What is the greatest number of baskets that she can make using all of her supplies?			How many fidget spinners will be in each bag?
7. Volunteers are making sandwiches for a class picnic. They have 72 turkey slices, 48 cheese slices, and 96 tomato slices. What is the greatest number of sandwiches they can make if each sandwich has the same filling?			How many turkey slices will each sandwich get?
8. The 6 <sup>th</sup> grade math teachers are working out math problem. Each teacher has the following number of problems per page: Ms. Balser – 6, Ms. de Give – 8, and Mr. Hokkanen – 12. They all start working at the same time. How long will it be before all 3 teachers start a new page at the same time?			How many problems did Ms. Balser complete?
9. Samantha has two rolls of streamers to decorate for her party. The hot pink roll is 72 inches long and the neon green roll is 90 inches long. If she wants to make all the streamers the same length, what is the longest each streamer can be?			How many pieces of neon green streamers will she get?

**Higher order thinking:**

10. What is the greatest common factor of 9 and 16?

11. Why is the ladder method not helpful when finding the least common multiple of 3 and 5?

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**Persevere in Problem Solving:** Use the digits 0 to 9, no more than one time each, to fill in the boxes and make a true statement. You may use a calculator to help you find your answer.

Factor:  Factor:  Multiple: