

Name:

Class:

Date:

LEAST COMMON MULTIPLE (LCM)

PART A: Find the least common multiple (LCM) of each pair.

1. 9 and 12

2. 8 and 18

3. 4 and 30

4. 14 and 56

PART B: Read each question carefully. Answer the question showing all your work in the space provided.

- Hot dogs come packed 10 in a package. Hot dog buns come packed 8 in a package. If we want one hot dog for each bun for a picnic with none left over, what is the least amount of each we need to buy? How many packages of each item would we have to buy?
- Starting at 6:00 a.m., a bus stops at my street corner every 15 minutes. Also starting at 6:00 a.m., a taxi cab comes by every 12 minutes. What is the next time both a bus and a taxi are at the corner at the same time?

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PART C: *Least Common Multiple Extension (optional, but highly recommended!)*

11. Is the LCM of a pair of numbers ever equal to one of the numbers? Explain with an example.

12. Is the LCM of a pair of numbers ever less than both numbers? Explain with an example.

13. Would you rather find all the factors of a number or find all the prime factors of a number? Why?

14. In what cases will **the LCM of a pair of numbers be equal to the product of the two numbers?**
Explain with at least one example.