



Least Common Multiples

Multiple: The _____ of a given number and any whole number

Common Multiple: A number that is a _____ of two given numbers.

Ex A. 36 is a common multiple of _____ and _____

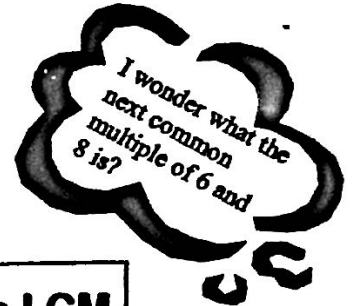
Least Common Multiple (LCM): The _____ multiple common to two numbers.

Ex B. Find the LCM of 6 and 8

6: 6, 12, 18, **24**, 30, 36, 42, **48**, 54,

8: 8, 16, **24**, 32, 40, **48**, 56

Circle the multiples that each number have in common



24 and 48 are Common Multiples, **24 is the LCM**

TRY THESE

Ex C. Find the LCM of 10 and 12

10: _____, _____, _____, _____, _____, _____, _____, ...

12: _____, _____, _____, _____, _____, _____, _____, ...

The LCM =

Ex D. Find the LCM of 4 and 6

4: _____, _____, _____, _____, _____, _____, _____, ...

6: _____, _____, _____, _____, _____, _____, _____, ...

The LCM =

Word Problem with LCM:  

Nate plays in a soccer game every 6 days. He plays baseball every eight days. If both seasons start on the same day, how many days will it be before he has to play both sports on the same day again? If the soccer season goes for three months, and baseball for four months, how many times will he have to play both sports in one day?

Name _____

1. Sally wears her brown shoes every 4 days. She wears her favorite jeans every 8 days. She wears her red shirt every 6 days. If she last wore her brown shoes, favorite jeans, and red shirt on June 1, what will the next date be when she wears all three?
2. At an intersection, the light turns red every 2 minutes. The pedestrian sign flashes every 3 minutes. If the red light and pedestrian sign are both present at 6:07 P.M., what will the next three times be when both are present at the intersection?
3. The Kennedy's receive the Boston Globe every 5 days. They receive the Washington Post every 3 days. If they last received the Globe and Washington Post on February 8, what will the next date be when they receive both newspapers?
4. Mrs. Parks makes cheeseburgers every 4 days. She cooks french fries every 6 days. She makes salad every 2 days. If the Parks' family last had cheeseburgers, french fries, and salad on February 2, what will the next date be when they have this same meal?
5. Johnny has baseball every 3 days. He has basketball every 2 days. He has piano lessons every 5 days. He has work every 6 days. If he last had all four activities on February 10, what will the next date be when he again has all four activities?