## 6.4 Least Common Multiple

The least common multiple (LCM) of two or more numbers is the least number (except 0) that is a common multiple of both (or all) of the numbers.

You can use a list or prime factorization to find the LCM.

## <u>Make a List</u>

1. Write a list of multiples of each number.

2. Extend the list until you find a common multiple of the numbers.

Example: Find the LCM of 2 and 12.

Multiples of 2: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, ...

Multiples of 12: 12, 24, 36, 48, 60, ...

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## Prime Factorization

- 1. Write the prime factorization for each number.
- 2. Write each prime factor the greatest number of times it appears in any of the numbers. Then multiply the factors.

Example: Find the LCM of 4 and 10.





