

Reteaching Page

5.5 Least Common Multiple (LCM)

The smallest multiple of two or more numbers is called the LCM or least common multiple. You can make a list of the multiples of the numbers to find the LCM or use the prime factoring method.

List the Multiples

12	16
24	32
36	48
48	64
60	80

Prime Factoring

$$12: 3 * 2 * 2$$

$$16: 2 * 2 * 2 * 2$$

$$16 * 3 = 48$$

$$\text{LCM} = 48$$

Remove 2 * 2 because it matches with 2 * 2 in the 16 and is the GCF.

Use the **list** method. List the multiples for each group and find the LCM for each data set.

3	4

LCM = _____

6	8

LCM = _____

4	5	8

LCM = _____

Write the Prime Factorization for each member of the data set.

3 and 4

3: _____

4: _____

LCM = _____

4 and 10

4: _____

10: _____

LCM = _____

4, 6 and 9

4: _____

6: _____

9: _____

LCM = _____