

## LESSON 15

# Lowest Common Multiple (By Primes)

The lowest common multiple of several numbers can be found by factoring each number into primes and writing a product that combines the least amount of those primes.

Example 1: Find the lowest common multiple (LCM) of 6 and 8.

$$6 = 2 \times 3$$

$$8 = 2 \times 2 \times 2$$

LCM =  $(2) \times (3) \times (2) \times (2) = 24$

Example 2: Find the lowest common multiple (LCM) of 12 and 18.

$$12 = 2 \times 2 \times 3$$

$$18 = 2 \times 3 \times 3$$

LCM =  $(2) \times (2) \times (3) \times (3) = 36$

# Find The Lowest Common Multiple Use The Least Amount Of Primes

<p>1. LCM (20, 45) = 180</p>	<p>6. LCM (46, 69) =</p>	<p>11. LCM (85, 95) =</p>
<p>2. LCM (42, 98) =</p>	<p>7. LCM (30, 28) =</p>	<p>12. LCM (32, 60) =</p>
<p>3. LCM (27, 63) =</p>	<p>8. LCM (54, 81) =</p>	<p>13. LCM (18, 30) =</p>
<p>4. LCM (48, 64) =</p>	<p>9. LCM (44, 77) =</p>	<p>14. LCM (34, 51) =</p>
<p>5. LCM (48, 64) =</p>	<p>10. LCM (64, 96) =</p>	<p>15. LCM (49, 63) =</p>