

LESSON 15

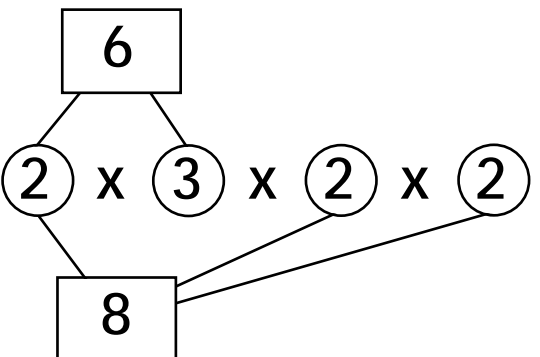
Lowest Common Multiple (By Primes)

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.

$$6 = 2 \times 3$$

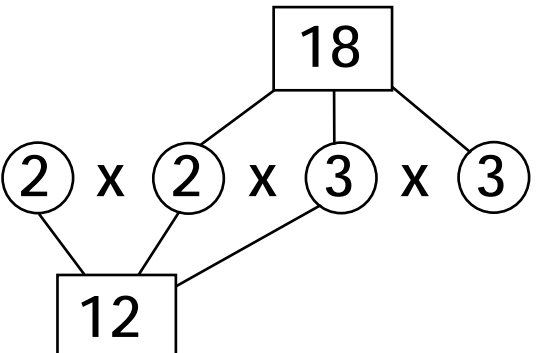
$$8 = 2 \times 2 \times 2$$

LCM =  = 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 =  = 36

Find The Lowest Common Multiple Use The Least Amount Of Primes

<p>1. LCM (20, 45) = 180</p>	<p>6. LCM (46, 69) = 138</p>	<p>11. LCM (85, 95) = 1615</p>
<p>2. LCM (42, 98) = 294</p>	<p>7. LCM (30, 28) = 420</p>	<p>12. LCM (32, 60) = 480</p>
<p>3. LCM (27, 63) = 189</p>	<p>8. LCM (54, 81) = 162</p>	<p>13. LCM (18, 30) = 90</p>
<p>4. LCM (48, 64) = 192</p>	<p>9. LCM (44, 77) = 308</p>	<p>14. LCM (34, 51) = 102</p>
<p>5. LCM (48, 64) = 273</p>	<p>10. LCM (64, 96) = 192</p>	<p>15. LCM (49, 63) = 441</p>