

# Finding Common Multiples

List the multiples of each number and use your lists to find the Lowest Common Multiple (LCM - the lowest multiple shared by both numbers)

**e.g.** 7 and 3

Multiples of 7: 7, 14, (21), 28, 35, 42, 49

Multiples of 3: 3, 6, 9, 12, 15, 18, (21), 24

LCM of 7 and 3 = 21

**1.** 3 and 4

Multiples of 3:

Multiples of 4:

LCM of 3 and 4 =

**2.** 3 and 9

Multiples of 3:

Multiples of 9:

LCM of 3 and 9 =

**3.** 2 and 5

Multiples of 2:

Multiples of 5:

LCM of 2 and 5 =

**4.** 8 and 4

Multiples of 8:

Multiples of 4:

LCM of 8 and 4 =

**5.** 6 and 9

Multiples of 6:

Multiples of 9:

LCM of 6 and 9 =

**6.** 10 and 5

Multiples of 10:

Multiples of 5:

LCM of 10 and 5 =

**7.** 11 and 6

Multiples of 11:

Multiples of 6:

LCM of 11 and 6 =

**8.** 7 and 13

Multiples of 7:

Multiples of 13:

LCM of 7 and 13 =

**9.** 8 and 12

Multiples of 8:

Multiples of 12:

LCM of 8 and 12 =

**10.** 25 and 40

Multiples of 25:

Multiples of 40:

LCM of 25 and 40 =

## Finding Common Multiples: Answers

| question  | answer                                                                                                                                                        |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>A.</b> |                                                                                                                                                               |
| 1         | Multiples of 3: <b>3, 6, 9, 12</b><br>Multiples of 4: <b>4, 8, 12</b><br>LCM of 3 and 4 = <b>12</b>                                                           |
| 2         | Multiples of 3: <b>3, 6, 9, 12, 15, 18, 21, 24, 27</b><br>Multiples of 9: <b>9, 18, 27</b><br>LCM of 3 and 9 = <b>9</b>                                       |
| 3         | Multiples of 2: <b>2, 4, 6, 8, 10, 12, 14, 16, 18, 20</b><br>Multiples of 5: <b>5, 10, 15, 20, 25</b><br>LCM of 2 and 5 = <b>10</b>                           |
| 4         | Multiples of 8: <b>8, 16, 24, 32, 40, 48, 56, 64</b><br>Multiples of 4: <b>4, 8, 12, 16, 20, 24, 28, 32</b><br>LCM of 8 and 4 = <b>8</b>                      |
| 5         | Multiples of 6: <b>6, 12, 18, 24, 30, 36, 42, 48, 54</b><br>Multiples of 9: <b>9, 18, 27, 36, 45, 54, 63, 72, 81</b><br>LCM of 6 and 9 = <b>18</b>            |
| 6         | Multiples of 10: <b>10, 20, 30, 40, 50, 60, 70, 80</b><br>Multiples of 5: <b>5, 10, 15, 20, 25, 30, 35, 40</b><br>LCM of 10 and 5 = <b>10</b>                 |
| 7         | Multiples of 11: <b>11, 22, 33, 44, 55, 66, 77, 88</b><br>Multiples of 6: <b>6, 12, 18, 24, 30, 36, 42, 48, 54, 60, 66</b><br>LCM of 11 and 6 = <b>66</b>     |
| 8         | Multiples of 7: <b>7, 14, 21, 28, 35, 42, 49, 56, 63, 70, 77, 84, 91</b><br>Multiples of 13: <b>13, 26, 39, 52, 65, 78, 91</b><br>LCM of 7 and 13 = <b>91</b> |
| 9         | Multiples of 8: <b>8, 16, 24, 32, 40, 48</b><br>Multiples of 12: <b>12, 24, 36, 48, 60</b><br>LCM of 8 and 12 = <b>24</b>                                     |
| 10        | Multiples of 25: <b>25, 50, 75, 100, 125, 150, 175, 200</b><br>Multiples of 40: <b>40, 80, 120, 160, 200</b><br>LCM of 25 and 40 = <b>200</b>                 |