

LCM: Least Common Multiple

I. LCM – Least Common Multiple

LCM: Least Common Multiple

To determine the LCM of two or more numbers:

1. Write the multiples of one of the numbers
2. As you are writing the multiples of the second number stop when you encounter a number already written.
3. The smallest number that is a multiple of both numbers is the LCM

What is the LCM of 5 and 35?

The multiples of 5: 5, 10, 15, 20, 25, 30, 35, 40, 45, ...

The multiples of 35: 35

Use **LCM** to find common denominators.

The smallest number that is a multiple of both is 35. **The LCM is 35.**

What is the LCM of 8 and 12?

What is the LCM of the denominators of the fractions

$$\frac{10}{11} \text{ and } \frac{20}{33}?$$

1. What is the LCM of 9 and 6?

2. What is the LCM of the denominators of the fractions

$\frac{4}{7}$ and $\frac{5}{6}$?

3. What is the LCM of the denominators of the fractions

$\frac{1}{2}$ and $\frac{2}{3}$?

III. Practice: