The Greatest Common Factor

Definition of the Greatest Common Factor

The greatest common factor (GCF) of two or more of numbers is the largest number that will divide each of the given numbers exactly.

For example, 6 is the greatest common factor of 12 and 18, because 6 is the largest number that divides both 12 and 18.

Two Ways of Finding the Greatest Common Factor



The Least Common Multiple

Definition of a Multiple

A multiple of a number is the result of multiplying the number by an integer. For example, the multiples of 5 are: 5, 10, 15, 20, 25, 30, 35, 40, 45, ... Each number has infinitely many multiples.

Definition of the Least Common Multiple (or the Least Common Denominator (LCD) when working with fractions)

The least common multiple (LCM) of two or more of numbers is the smallest number that is a multiple of these numbers.

For example, 12 is the least common multiple of 3 and 4, because 12 is the smallest number that is a multiple of both 3 and 4.

Two Ways of Finding the Least Common Multiple

