## G6 Playlist: Finding Greatest Common Factors and Least Common Multiples

Aligns with CCSS.MATH.CONTENT.6.NS.B.4: Find the greatest common factor of two whole numbers less than or equal to 100 and the least common multiple of two whole numbers less than or equal to 12 . Use the distributive property to express a sum of two whole numbers 1-100 with a common factor as a multiple of a sum of two whole numbers with no common factor. For example, express $36+8$ as $4(9+2)$.

## Related Standards

- CCSS.MATH.CONTENT.4.OA.B.4: Find all factor pairs for a whole number in the range 1-100. Recognize that a whole number is a multiple of each of its factors. Determine whether a given whole number in the range 1-100 is a multiple of a given one-digit number. Determine whether a given whole number in the range 1-100 is prime or composite.



## Objectives

In this playlist, you will learn and practice the following skills:

- Find the greatest common factor of two whole numbers less than 100.
- Find the least common multiple of two whole numbers less than 100.
- Use the distributive property to express the sum of two numbers with a common factor as the product of the common factor and the sum of two numbers that do not have a common factor.


## Let's get started!

## Key Terms

- A factor is a number that divides evenly into another number.
- The greatest common factor of two whole numbers is the greatest whole number that divides evenly into both numbers.
- A prime factor is a prime number that is a factor of a number.
- The prime factorization of a number a multiplication expression whose factors are only prime numbers whose product is the number.
- Relatively prime numbers have no common factors other than 1.
- The distributive property is a property of numbers that states that the product of a factor and a sum can be written as a sum of two products.
- A multiple is a number that can be evenly divided by another number.
- The least common multiple of two whole numbers is the least whole number that is evenly divisible by both numbers.

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