Definition

• Let $m, n \in \mathbb{Z}$ and not both zero. Then the greatest common divisor of m, n, denote gcd(m, n), is the largest positive number that divides both of them.

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• If gcd(m, n) = 1 we say that m and n are relatively prime.

Example

Let m = 42 and n = 63.

- Divisors of 42: 1,2,3,6,7,14,21,42
- Divisors of 63: 1,3,7,9,21,63

Then gcd(42, 63) = 21.