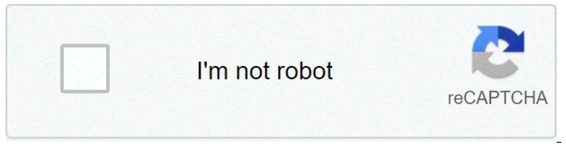

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Equivalent fractions using least common denominator

Write equivalent fractions using least common denominator.

The highest common of the denominators of a set of fractions This article concerns mathematics. For computers, see the lowest common denominator (computer). In mathematics, the lowest or less common common denominator (Abreviated LCD) is the lower common of denominators of a set of fractions. Simplify the addition, subtraction and confrontation of fractions. Designation of goods The minimum common denominator of a set of fractions is the lowest number that is a multiple of all denominators: their lowest multiple common. The denominator product is always a common denominator, as in: 1 2 + 2 3 = 3 6 + 4 6 = 7 6 {DisplayStyle {frac {1} {2}} + {frac {2} {3 }} = { Lower common, as in: 5 12 + 11 18 = 15 36 + 22 36 = 37 36 {displaystyle {frac {5} {12}} + {frac {11} {18}} = frac {15} {36} + {frac {22} {36}} = brac {37} {36}}} here, 36 is the least common multiple of 12 and 18. Their product , 216, it is also a common denominator, but the calculation with that denominator involves larger numbers: 5 12 + 11 18 = 90 216 + 132 216 = 222 216. {5} {12}} + {frac {11} {18} = {frac {90} {216}} + {frac {132} {216}} = {frac {222} {216}} } With variables rather than numbers, the same principles apply: [1] abc + cb 2 d = bdb 2 cd + c 2 b 2 cd = bd + c 2 b 2 cd {displaystyle {frac {} {bc} } + {frac {c} {b ^ {2} d}}; = {frac {abd} {b ^ {2} cd}} + {frac {c ^ {2}} { b ^ {2} CD}} = { TO§. Role in arithmetic and algebra The fraction itself can be expressed in many different forms. As long as the relationship between numerator and denominator is the same, the fractions represent the same number. For example: 2 3 = 6 9 = 12 18 = 144 216 = 200, 000 300, 000 {DisplayStyle {frac {2} {3} = {frac {6} {9} = {frac {12} {18} = {frac {144} {216}} = {frac {200,000} {300,000}}} because they are all multiplied by 1 written as a fraction: 2 3 = 2 3 Ã- 3 3 = 2 3 Ã - 6 6 = 2 3 Ã- 72 72 = 2 3 Ã- 100, 000 100, 000. - No. {2} {3}} = {frac {2} {3}} Times {frac {3 } {3}} = {frac {2} {3}} times {frac {6} {6}} = {frac {2} {3}} times {frac {72} {72} } = {frac {2} {3}} times {frac {100,000} {100,000}}}. It is usually easier to add, subtract or compare fractions when each is expressed with the same denominator, called "common denominator". For example, fraction numberers with common denominators can simply be added, such that 5 12 + 6 12 = 11 12 {displaystyle {frac {5} {12} + {frac {6} {12}} = { frac {11} {12}}}} and that 5 12