Least Common Multiple

Arabic animated intuition



Least Common Multiple

Least Common multiple is the least number that is a multiple of a and b it means it divdes a and b

lcm(a,b)=18

Least Common Multiple

we can use prime factorization or for loop (as we did in the gcd)

in gcd we take the minmum repetition
of prime factors
in lcm we take the maximum repetition of
prime factors

lcm(a,b)=(a*b)/gcd(a,b)