

# Least Common Multiple

The smallest number/value which can be multiplied from a set of numbers/values.

## Method 1: "Old School"

List multiples of each number in question until a match is found.

Egg samples:

LCM of 12 & 7

12: 12, 24, 36, 48, 60, 72, 84

7: 7, 14, 21, 28, 35, 42, 49, 56, 63, 70, 77, 84

LCM of 4 & 3

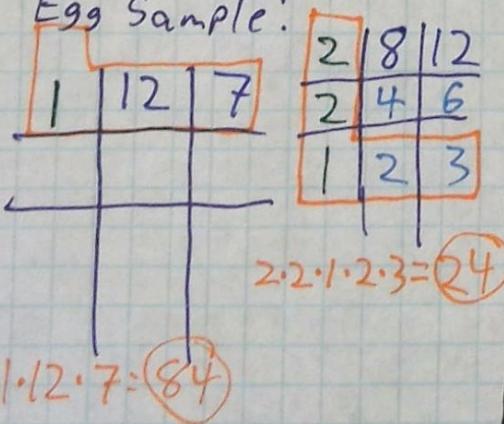
4: 4, 8, 12

3: 3, 6, 9, 12

## Method 2: "Tic-Tac-Toe"

- Place originals in top middle & top right.
- Place any common factor on far left.
- Place the originals divided by the factor, under the old originals.
- Repeat until finished. Multiply all values inside the "L".

Egg Sample:



# Greatest Common Factor

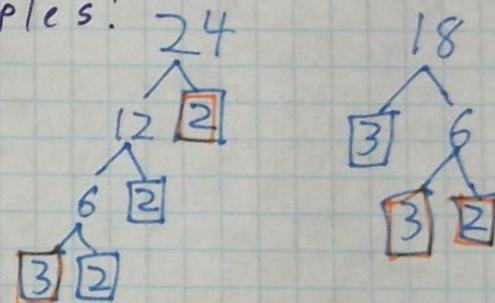
The largest number/value which can be multiplied from a set of numbers/values.

## Method 1: Prime Factors.

Use Prime Factorization. Multiply common factors together. Egg samples:

Common: 2 · 3

GCF = 6



## Method 2: Old School

List factors. Choose Largest common factor.

Egg samples: 24: 1, 2, 3, 4, 6, 8, 12, 24

Method 3: "Tic-Tac-Toe" 18: 1, 2, 3, 6, 9, 18

- Same directions as on LCM side, but only multiply the far left side.

Egg Samples:

