# LOWEST [OR LEAST] COMMON MULTIPLE (L.C.M.)

*Thursday, 19th May, 2016*

## Objectives

- Knowing how to find the LCM between two or more numbers

## Introduction

Multiples are the results we get when we multiply a number increasingly from 1. When you are given two numbers to find their multiples you will find that some are common, the least among them is the Lowest Common Multiple (LCM).

## Lowest Common Multiple (LCM)

LCM is the lowest multiple that is shared by two or more numbers. For example, 2 and 3 has 6, 12, etc. as common multiples but 6 is the lowest, i.e. LCM.

## How to find the LCM

When you are given some numbers to find their lowest common multiple, the easiest way to do it is by using prime numbers. Study the below example:

Find the LCM of 6 and 15.

Solving

| | | |
|---|---|---|
| 2 | 6 | 15 |
| 3 | 3 | 15 |
| 5 | 1 | 5 |
| | 1 | 1 |

2 x 3 x 5 = 30.

∴ The LCM of 6 and 15 is 30