3. LCM - Factorization Method

Friday, March 26, 2021 12:35 PM

Ex. L.C.M of 72, 108 and 2100

2	72
2	36
2	18
3	9
3	3
	1

$2^3 \times 3^2$

2	108
2	54
3	27
3	9
3	3
	1

$2^2 \times 3^3$

2	2100
2	1050
5	525
5	105
3	21
7	7
	1

$2^2 \times 5^2 \times 3 \times 7$

H.C.F $= 2^2 \times 3^1$

$= 4 \times 3$

$= 12$ //

$\Rightarrow 2^3 \times 3^3 \times 5^2 \times 7$

$\Rightarrow 8 \times 27 \times 25 \times 7$

$\Rightarrow 37800$ //