

4. LCM - Common Division Method

Friday, March 26, 2021 12:42 PM

ex: Find L.C.M of 16, 24, 36 and 54.

$$\begin{array}{r|rrrr}
 2 & 16 & 24 & 36 & 54 \\
 \hline
 2 & 8 & 12 & 18 & 27 \\
 \hline
 2 & 4 & 6 & 9 & 27 \\
 \hline
 2 & 2 & 3 & 9 & 27 \\
 \hline
 3 & 1 & 3 & 9 & 27 \\
 \hline
 3 & 1 & 1 & 3 & 9 \\
 \hline
 3 & 1 & 1 & 1 & 3 \\
 \hline
 & 1 & 1 & 1 & 1
 \end{array}$$

$$\Rightarrow 2^4 \times 3^3$$

$$\Rightarrow 16 \times 27$$

$$\Rightarrow 432$$