

8. Examples

Tuesday, March 30, 2021 9:50 AM

Ex: The L.C.M of two numbers is 45 times their H.C.F. If one number is 125 and Sum of H.C.F and L.C.M is 1150, Find the other number.

$$\begin{aligned} \rightarrow L &= 45H. & L + H &= 1150 & L &= 1150 - H \\ & & 45H + H &= 1150 & &= 1150 - 25 \\ & & \boxed{H = 25} & & \boxed{L = 1125} \end{aligned}$$

$$x = \frac{1125 \times 25}{125} = 225 //$$

Ex: The L.C.M of three different no.s is 120. Which one of the following cannot be H.C.F?

a) 8 b) 12 c) 24 ~~d) 35~~ //