

Puzzle – 33

Q- Two Candles Puzzle

Two Candles Riddles: There are two candles of equal lengths and of different thickness. The thicker one lasts of six hours. The thinner 2 hours less than the thicker one. Ramesh lights the two candles at the same time. When he went to bed he saw the thicker one is twice the length of the thinner one. How long ago did Ramesh light the two candles?

My Approach and Solution –

The thicker candle lasts 6 hours. So, after every hour, $\frac{1}{6}$ of the candle would have melted. The thinner one lasts 2 hours less than thicker candle i.e. 4 hours. So, after 1 hour, $\frac{1}{4}$ of the candle would have melted.

Taking this in mind, after 1 hour, the remaining portion of thicker candle is $(\frac{5}{6})$ and remaining portion of thinner candle is $\frac{3}{4}$

After 2 hours, the remaining portion of thicker candle is $(\frac{4}{6})$ and remaining portion of thinner candle is $\frac{2}{4}$

After 3 hours, the remaining portion of thicker candle is $\frac{3}{6} = 0.5$ and remaining portion of thinner candle is $\frac{1}{4} = 0.25$

So, we can see that Ramesh light the candles 3 hours ago.