

Time taken by Ram to travel $(760 - 240) = 520$ km by car = $\frac{520}{y}$ h

∴ Time taken by Ram to cover 760 km = $\left(\frac{240}{x} + \frac{520}{y}\right)$ h

It is given that the Ram takes 8 hours 12 minutes for the journey.

$$\therefore \frac{240}{x} + \frac{520}{y} = 8\frac{12}{60} = 8\frac{1}{5}$$

$$\Rightarrow \frac{240}{x} + \frac{520}{y} = \frac{41}{5}$$

$$\Rightarrow \frac{30}{x} + \frac{65}{y} = \frac{41}{5 \times 8} = \frac{41}{40} \quad \dots(2)$$

Multiplying equation (1) by 3 and equation (2) by 2, we get

$$\frac{60}{x} + \frac{225}{y} = 3 \quad \dots(3)$$

and $\frac{60}{x} + \frac{130}{y} = \frac{41}{20} \quad \dots(4)$

Subtracting (4) from (3), we get

$$\left(\frac{60}{x} + \frac{225}{y}\right) - \left(\frac{60}{x} + \frac{130}{y}\right) = 3 - \frac{41}{20}$$

$$\Rightarrow \frac{225}{y} - \frac{130}{y} = \frac{60 - 41}{20} = \frac{19}{20}$$

$$\Rightarrow \frac{95}{y} = \frac{19}{20}$$

$$\Rightarrow y = \frac{95 \times 20}{19}$$

$$\Rightarrow y = 100$$

Substituting $y = 100$ in (3), we get

$$\frac{60}{x} + \frac{225}{100} = 3$$

$$\Rightarrow \frac{60}{x} = 3 - \frac{225}{100}$$

$$\Rightarrow \frac{60}{x} = \frac{300 - 225}{100}$$

$$\Rightarrow \frac{60}{x} = \frac{75}{100}$$

$$\Rightarrow x = \frac{60 \times 100}{75} = 80$$

Hence, speed of train = 80 km/h and speed of car = 100 km/h.

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Clemens Wendtner



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