

Solution by Dev Anoop (bathinda)

$$\begin{array}{r} \textcircled{1} \times 5 - \textcircled{ii} \\ 5xy - 15x = 30 \\ \cancel{5xy} - 12x = 48 \\ \hline -3x = -18 \end{array}$$

$$x = 6$$

Sub \textcircled{i}

$$6y - 18 = 6$$

$$\begin{aligned} \cancel{6y} &= 24 \\ y &= 4 \end{aligned}$$

$$\begin{aligned} \therefore \text{Speed} &= 6 \times 5 \\ &= 30 \text{ km/h} \end{aligned}$$

$$\begin{aligned} \text{distance} &= 5xy \\ &= 5 \times 6 \times 4 \\ &= 120 \text{ km} \end{aligned}$$