

⑥ i let no. of incorrect answers = x

$$12 \times 3 + x \times (-2) = 20$$

$$\Rightarrow -2x = 20 - 36$$

$$\Rightarrow x = \frac{-16}{-2}$$

$$\Rightarrow x = 8$$

6 ⑥ ii let no. of incorrect answers = y

$$7 \times 3 + y \times (-2) = -5$$

$$\Rightarrow -2y = -5 - 21$$

$$\Rightarrow y = \frac{-26}{-2}$$

$$\Rightarrow y = 13$$

⑦ total distance covered = $10 + 350$
= 360 m

time taken

$\frac{\text{distance}}{\text{speed}}$

$$= \frac{360}{6}$$

$$= 60 \text{ min}$$

$$= 1 \text{ hour}$$