

Date:

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$$Q:1 \quad \frac{25+35+40+95+80}{5} = \frac{275}{5} = 55 \text{ average}$$

$$Q:2 \quad \begin{aligned} &\text{A train covers a distance} = 125 \text{ km} \\ &\text{speed of} = 50 \text{ km/hr} \\ &\text{time it take} = \frac{D}{S} = \frac{125}{50} = 2.5 \end{aligned}$$

$$Q:3 \quad \begin{aligned} &\text{Distance} = 300 \text{ km} \\ &\text{Time} = 4 \text{ hours} \\ &\text{Speed} = ??? \end{aligned}$$

$$\text{We know that speed} = \frac{D}{T} = \frac{300}{4} = 75 \text{ km/hr}$$

$$4. \quad 198 \text{ km/hr} = 198 \times \frac{5}{18} \\ = 11 \times 5 \text{ m/sec} \\ = 55 \text{ m/sec}$$

$$5. \quad 120 \text{ m/sec} = \frac{24}{5} \times \frac{18}{5} = 24 \times 18 = 432 \text{ km/hr}$$