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Session 2021-22
Main Term-2
Zone-4, Set-1

Q-2



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$$\text{Given ratio of P, Q and R} = 3 : 4 : 1$$

$$\text{New Share} = \text{Old Share} + \text{Gain}$$

$$\text{P's Old share} = \frac{3}{8}$$

$$\text{P's gain} = \frac{1}{3} \text{ of R's share}$$

$$= \frac{1}{3} \times \frac{1}{8}$$

$$= \frac{1}{24}$$

$$\text{P's new share} = \frac{3}{8} + \frac{1}{24}$$

$$= \frac{10}{24}$$

ACCOUNTS
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$$\text{Q's old share} = \frac{4}{8}$$

$$\text{Q's gain} = \frac{2}{3} \text{ of R's share}$$

$$= \frac{2}{3} \times \frac{1}{8}$$



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$$\begin{aligned} &= \frac{2}{24} \\ \text{Q's new share} &= \frac{4}{8} + \frac{2}{24} \\ &= \frac{14}{24} \end{aligned}$$

Hence, New profit sharing ratio of P : Q

$$\begin{aligned} &= \frac{10}{24} : \frac{14}{24} \\ &= 10:14 \\ &= \mathbf{5:7} \end{aligned}$$

