

Q11. Sandeep and Navdeep are partners in a firm sharing profits in 5:3 ratio. They admit C into the firm and the new profit sharing ratio was agreed at 4:2:1. Calculate the sacrificing ratio? Solution:

Old Ratio =
$$\begin{array}{c} & \text{Sandeep:} & \text{Navdeep} \\ 5: & 3 \\ & = & \frac{5}{8}: & \frac{3}{8} \end{array}$$

Sandeep: Nevdeep: C

New Ratio= 4: 2: 1

=
$$\frac{4}{7}$$
: $\frac{2}{7}$: $\frac{1}{7}$

Sacrificing Ratio = Old Ratio -New Ratio
$$Sandeep = \frac{5}{8} - \frac{4}{7} = \frac{35 - 32}{56} = \frac{3}{56}$$

$$Navdeep = \frac{3}{8} - \frac{2}{7} = \frac{21 - 16}{56} = \frac{5}{56}$$

$$Sandeep: Navdeep$$

$$Sacrifice Ratio = \frac{3}{56}: \frac{5}{56}$$

$$3: 5$$

Note: Answer given the book is different. However, as per the solution sacrificing ratio is 3:5.

Q12. Rao and Swami are partners in a firm sharing profits and losses in 3:2 ratio. They admit Ravi as a new partner for 1/8 share in the profits. The new profit sharing ratio between Rao and Swami is 4:3. Calculate new profit sharing ratio and sacrificing ratio? Solution:

Rao: Swami

Old Ratio=

Ravi admits for $\frac{1}{8}$ share of profit in new firm Let the New Firm Profit = 1 Combined share of Rao and Swami in the new firm = 1 - Ravi's share of profit

$$= 1 - \frac{1}{8}$$
$$= \frac{7}{8}$$

= 1 - Ravi's strong = ...

= $1 - \frac{1}{8}$ = $\frac{7}{8}$ New Ratio = Combined Share of Rao and Swami × Proportion of Rao and Swami in the Combined Share Rao = $\frac{7}{8} \times \frac{4}{7} = \frac{28}{56}$ Swami = $\frac{7}{8} \times \frac{3}{7} = \frac{21}{56}$ Rao: Swami: C

21 1 1

Rao =
$$\frac{7}{8} \times \frac{4}{7} = \frac{28}{56}$$

Swami =
$$\frac{7}{8} \times \frac{3}{7} = \frac{21}{56}$$

28:21:7 56 4:3:1

Sacrificing Ratio = Old Ratio -New Ratio

Rao =
$$\frac{5}{3} - \frac{4}{8} = \frac{24 - 20}{40} = \frac{4}{40}$$

Rao =
$$\frac{5}{3} - \frac{4}{8} = \frac{24 - 20}{40} = \frac{4}{40}$$

Swami = $\frac{2}{5} - \frac{3}{8} = \frac{16 - 15}{40} = \frac{1}{40}$
Sacrifice Ratio = Rao: Swami

$$=\frac{4}{40}: \frac{1}{40}$$

= 4: 1

********* END ********