

Solution-04

Case-1

	Old Ratio	Change	New Ratio	
A	$\frac{5}{10}$	$\frac{-1}{5}$	$\frac{5-1}{10}$	$\frac{3}{10}$
B	$\frac{4}{10}$			$\frac{4}{10}$
C	$\frac{1}{10}$	$\frac{1}{5}$	$\frac{1+2}{10}$	$\frac{3}{10}$

New Profit Sharing Ratio = 3:4:3

Sacrifice of A $\frac{1}{5}$ and Gain of C $\frac{1}{5}$

Case-2

	Old Ratio	Change	New Ratio	
A	$\frac{5}{10}$	$\frac{-1}{10}$	$\frac{5-1}{10}$	$\frac{4}{10}$
B	$\frac{4}{10}$	$\frac{-1}{10}$	$\frac{4-1}{10}$	$\frac{3}{10}$
C	$\frac{1}{10}$	$\frac{2}{10}$	$\frac{1+2}{10}$	$\frac{3}{10}$

New Profit Sharing Ratio = 4:3:3

Sacrificing ratio of A and B 1:1; Gain of C $\frac{2}{10}$

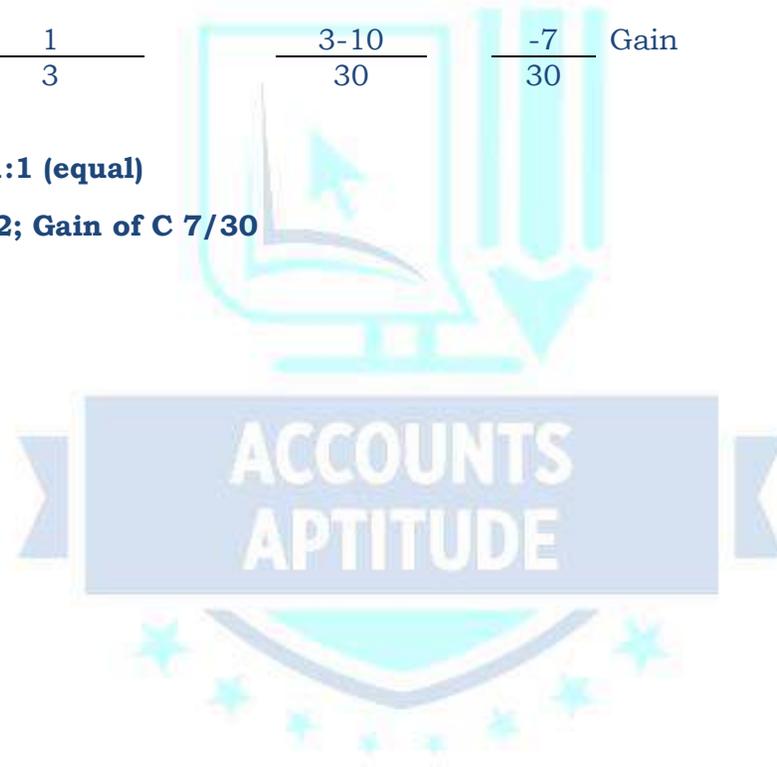
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Case-3

	Old Ratio	New Ratio	Sacrificing/Gaining Ratio		
A	$\frac{5}{10}$	$\frac{-1}{3}$	$\frac{15-10}{30}$	$\frac{5}{30}$	Sacrifice
B	$\frac{4}{10}$	$\frac{-1}{3}$	$\frac{12-10}{30}$	$\frac{2}{30}$	Sacrifice
C	$\frac{1}{10}$	$\frac{1}{3}$	$\frac{3-10}{30}$	$\frac{-7}{30}$	Gain

New Profit Sharing Ratio = 1:1:1 (equal)

Sacrificing ratio of A and B 5:2; Gain of C 7/30



Solution-04

Case-4

$$\text{C acquires } \frac{1}{10} \text{ of A} = \frac{5}{10} \times \frac{1}{10} = \frac{5}{100} = \frac{1}{20}$$

$$\text{C acquires } \frac{1}{2} \text{ of B} = \frac{4}{10} \times \frac{1}{2} = \frac{4}{20}$$

	Old Ratio	Change	New Ratio	
A	$\frac{5}{10}$	$\frac{-1}{20}$	$\frac{10-1}{20}$	$\frac{9}{20}$
B	$\frac{4}{10}$	$\frac{-4}{20}$	$\frac{8-4}{20}$	$\frac{4}{20}$
C	$\frac{1}{10}$	$\frac{1+4}{20}$	$\frac{1+1+4}{20}$	$\frac{7}{20}$

New Profit Sharing Ratio = 9:4:7

Sacrificing ratio of A and B 1:4; Gain of C 5/20

