

Numbers.

Q1. A and B were partners in a firm sharing profits and losses in the ratio of 3:2. They admit C into the partnership with 1/6 share in the profits. Calculate the new profit sharing ratio? Solution.

A:B
Old Ratio= 3:2
OR
$$= \frac{3}{5}: \frac{2}{5}$$

cadmits for  $\frac{1}{6}$  share of new profit in new firm.

Let new firm profit = 1

Remaining share of A and B in the new firm

$$= 1 - \frac{1}{6}$$

$$=\frac{5}{6}$$

New Ratio = Old Ratio × Remaining Share

$$A = \frac{3}{5} \times \frac{5}{6} = \frac{15}{30}$$

$$B = \frac{2}{5} \times \frac{5}{6} = \frac{10}{30}$$

New Ratio = 
$$\frac{15}{30}$$
:  $\frac{10}{30}$ :  $\frac{1}{6}$ 

$$= \frac{15:10:5}{30}$$
$$= 15:10:5$$
$$= 3:2:1$$

Q2. A, B, C were partners in a firm sharing profits in 3:2:1 ratio. They admitted D for 10% profits. Calculate the new profit sharing ratio? Solution.

Old Ratio = 
$$\frac{3}{6}$$
:  $\frac{2}{6}$ :  $\frac{1}{6}$ 

D admits for  $\frac{10}{100}$  share in the new firm

Let new firm profit = 1

Remaining share of A, B and C in new firm

= 1 - D's share

$$=1-\frac{10}{100}$$

$$=\frac{90}{100}$$

= 
$$\frac{9}{10}$$

New Ratio = Old Ratio × Remaining Share

$$A = \frac{3}{6} \times \frac{9}{10} = \frac{27}{60}$$

$$B = \frac{2}{6} \times \frac{9}{10} = \frac{18}{60}$$

$$C = \frac{1}{6} \times \frac{9}{10} = \frac{9}{60}$$

New Ratio = 
$$\frac{27}{60}$$
:  $\frac{18}{60}$ :  $\frac{9}{60}$ :  $\frac{1}{10}$ 

$$=\frac{27:18:9:6}{60}$$

= 9:6:3:2

\*\*\*\*\*\*\*\*\* END \*\*\*\*\*\*\*