

Q3. X and Y are partners sharing profits in 5:3 ratio admitted Z for 1/10 share which he acquired equally for X and Y. Calculate new profit sharing ratio?
Solution.

Old Ratio = 
$$5$$
:  $3$ 

$$= \frac{5}{8}$$
:  $\frac{3}{8}$ 

Z admits for  $\frac{1}{10}$  share in the new firm

X and Y each sacrifice = 
$$\frac{1}{10} \times \frac{1}{2} = \frac{1}{20}$$

New Ratio = Old Ratio - Sacrificing Ratio

X's = 
$$\frac{5}{8} - \frac{1}{20} = \frac{25 - 2}{40} = \frac{23}{40}$$
  
Y's =  $\frac{3}{8} - \frac{1}{20} = \frac{15 - 2}{40} = \frac{13}{40}$   
A: B :C  
New Ratio =  $\frac{23}{40}$ :  $\frac{1}{40}$ :  $\frac{1}{10}$ 

$$= \frac{23:13:4}{40}$$
$$= 23:13:4$$

Q4. A, B and C are partners sharing profits in 2:2:1 ratio admitted D for 1/8 share which he acquired entirely from A. Calculate new profit sharing ratio?

Solution.

Old Ratio = 
$$\frac{A:}{2} = \frac{2}{5} = \frac{1}{5}$$

D admits for  $\frac{1}{8}$  share in the new firm, which he taken from A.

Here only A will sacrifice.

New Ratio = Old Ratio - Sacrificing Ratio

$$A = \frac{2}{5} - \frac{1}{8} = \frac{16 - 5}{40} = \frac{11}{40}$$

A: B :C :D

New Ratio =  $\frac{11}{40}$ :  $\frac{2}{5}$ :  $\frac{1}{5}$ :  $\frac{1}{8}$ 

$$=\frac{11:16:8:5}{40}$$

= 11:16:8:5