| Gita | Radha | Garv |
| :---: | :---: | :---: |
| $1 / 2$ | $2 / 5$ | $1 / 10$ |
| 5 | 4 | 1 |

## Garv retires

The new profit sharing ratio is not given
Also the ratio in which the share acquired (Gaining
ratio) is not given
So the remaining partners will share in their old profit
sharing ratio

New Profit Sharing ratio

| Gita | Radha |
| :---: | :---: |
| 5 | 4 |

Old profit sharing ratio

| $X$ | $Y$ | $Z$ |
| :--- | :--- | :--- |
| $1 / 2$ | $3 / 10$ | $1 / 5$ |
| 5 | 3 | 2 |

## Y retires

The new profit sharing ratio is not given
Also the ratio in which the share acquired is not given

So the remaining partners will share in their old profit
sharing ratio

New Profit Sharing ratio and gaining ratio

| $X$ | $Z$ |
| :---: | :---: |
| 5 | 2 |

## We can check gaining ratio by calculation

Gaining ratio $=$ New ratio - old ratio

X's gaining ratio
Z's Gaining Ratio

| $5 / 7-5 / 10$ | $3 / 14$ |
| :--- | :--- |
| $2 / 7-2 / 10$ | $3 / 35$ |
|  |  |

Final Gaining ratio

| $X$ | $Z$ |
| :---: | :---: |
| 15 | 6 |
| 5 | 2 |

3 (a) Old Profit Sharing Ratio

| Shiv | Mohan | Hari | Total |
| :---: | :---: | :---: | :---: |
|  |  |  |  |
| 5 | 5 | 4 | 14 |

Share taken by Shiv out of Mohan's Share Share taken by Hari out of Mohan's Share

5/14*1/2
$5 / 14 * 1 / 2$

| $5 / 28$ |
| :--- |
| $5 / 28$ |

Shiv's New share

$$
\begin{aligned}
& 5 / 14+5 / 28 \\
& 4 / 14+5 / 28
\end{aligned}
$$

$$
\begin{aligned}
& \hline 15 / 28 \\
& \hline 13 / 28 \\
& \hline
\end{aligned}
$$

| Shiv | Hari |
| :---: | :---: |
| 15 | 13 |

3 (b) Old Profit Sharing Ratio

| $P$ | Q | R |
| :---: | :---: | :---: |
|  |  |  |
| 5 | 4 | 1 |

## P retires

The new profit sharing ratio is not given

Also the ratio in which the share acquired is not given So the remaining partners will share in their old profit sharing ratio

New Profit Sharing ratio

| Q | R |
| :--- | :--- |
| 4 | 1 |

4 Old Profit Sharing Ratio

| R | S | M |
| :--- | :--- | :--- |
| $2 / 5$ | $2 / 5$ | $1 / 5$ |
| 2 | 2 | 1 |

His share taken by remaining partners in the ratio 1:2

| Share taken by R out of M's Share | 1/5*1/3 | 1/15 |
| :---: | :---: | :---: |
| Share taken by S out of M's Share | 1/5*2/3 | 2/15 |
| R's New share | 2/5 + 1/15 | 7/15 |
| S's New Share | $2 / 5+2 / 15$ | 8/15 |
| Thus, New profit sharing ratio | R | S |
|  | 7 | 8 |

5 Old profit sharing ratio

| Sarthak | Vansh | Mansi | Total |
| :---: | :---: | :---: | :---: |
| 4 | 3 | 2 | 9 |

## Sarthak retires

New Profit sharing ratio

| Vansh | Mansi | Total |
| :---: | :---: | :---: |
| 2 | 1 | 3 |

Gaining ratio $=$ New ratio - old ratio

## Vansh's gaining ratio

Mansi's Gaining Ratio

| $2 / 3-3 / 9$ | $1 / 3$ |
| :--- | :--- |
| $1 / 3-2 / 9$ | $1 / 9$ |
|  |  |

Final Gaining ratio

| Vansh | Mansi |
| :---: | :---: |
| 3 | 1 |

6 (a) Old profit sharing ratio

| W | X | Y | Z |
| :---: | :---: | :---: | :---: |
| $1 / 3$ | $1 / 6$ | $1 / 3$ | $1 / 6$ |
| 2 | 1 |  | 2 |
| Or |  |  |  |
| 2 |  |  |  |

## Y retires

New Profit sharing ratio

| $W$ | $X$ | $Z$ |
| :---: | :---: | :---: |
| 1 | 1 | 1 |

Gaining ratio $=$ New ratio - old ratio

W's gaining ratio
X's Gaining Ratio
Z's Gaining Ratio

| $1 / 3-2 / 6$ | 0 |
| :--- | :--- |
| $1 / 3-1 / 6$ | $1 / 6$ |
| $1 / 3-1 / 6$ | $1 / 6$ |

Final Gaining ratio

| $W$ | $X$ | $Z$ |
| :---: | :---: | :---: |
| 0 | 1 | 1 |

6 (b) Old profit sharing ratio

| $A$ | $B$ | $C$ |
| :--- | :--- | :--- |
| 4 | 3 | 2 |

## C retires

A acquires $4 / 9$ of $C$ 's share

So, balance of C's share is acquired by $B$

A's new share
B's New share
$4 / 9 * 2 / 9 \quad 8 / 81$

2/9-8/81
10/81
$4 / 9+8 / 81$
44/81
$3 / 9+10 / 81 \quad 37 / 81$

New Profit sharing ratio

| A | B | Total |
| :---: | :---: | :---: |
| 44 | 37 | 81 |

Gaining Ratio

| $A$ | $B$ |
| :---: | :---: |
| $8 / 81$ | $10 / 81$ |
| 4 | 5 |

7 Old profit sharing ratio

| Kumar | Lakshya | Manoj | Naresh | Total |
| :---: | :---: | :---: | :---: | :---: |
| 3 | 2 | 1 | 4 | 10 |

## Kumar retires

Lakshya acquires 3/5 of Kumar's share

| $3 / 5 * 3 / 10$ |  | 9/50 |
| :---: | :---: | :---: |
| $2 / 10+9 / 50$ |  | 19/50 |
| $2 / 5 * 3 / 10$ |  | 3/25 |
| $1 / 10+3 / 25$ |  | 11/50 |
| $\begin{aligned} & 2 / 10+9 / 50 \\ & 1 / 10+3 / 25 \end{aligned}$ |  | 19/50 |
|  |  | 11/50 |
| Lakshya | Manoj | Naresh |
| 19/50 | 11/50 | 2/5 |
| 19 | 11 | 20 |

Gaining Ratio

| Lakshya | Manoj |
| :---: | :---: |
| $9 / 50$ | $3 / 25$ |
| 9 | 6 |
| 3 | 2 |

8 Old Profit Sharing Ratio

| A | B | C | Total |
| :---: | :---: | :---: | :---: |
| 8 | 4 | 3 | 15 |

## B Retires

His share taken by remaining partners in the ratio 1:1

Share taken by A out of B's Share
Share taken by C out of B's Share
$4 / 15$ * $1 / 2$
$4 / 15$ * 1/2

| $2 / 15$ |
| ---: |
| $2 / 15$ |

A's New share
$8 / 15+2 / 15$
C's New Share
$3 / 15+2 / 15$

| $2 / 3$ |
| :--- |
| $1 / 3$ |

Thus, New profit sharing ratio

| $A$ | $C$ |
| :--- | :--- |
| 2 | 1 |

9 Old Profit Sharing Ratio

| A | B | C | Total |
| :---: | :---: | :---: | :---: |
| 5 | 3 | 2 | 10 |

## C Retires

His share taken by remaining partners in the ratio 1:0

Share taken by A out of C's Share
Share taken by B out of C's Share

A's New share
B's New Share

Thus, New profit sharing ratio

|  | $2 / 10 * 1 / 1$ |
| :--- | :--- |
|  | $1 / 5$ |
| $2 / 10 * 0 / 1$ | 0 |
| $5 / 10+1 / 5$ | $7 / 10$ |
| $3 / 10+0$ | $3 / 10$ |

10 Old Profit Sharing Ratio

| Murli | Naveen | Omprakash | Total |
| :---: | :---: | :---: | :---: |
| $3 / 8$ | $1 / 2$ | $1 / 8$ | 1 |
| 3 | 4 | 1 | 8 |
| $3 / 8$ |  |  |  |

## Murli Retires

Murli surrenders in favour of Naveen
Murli surrenders in favour of Omprakash

Naveen's New share
Omprakash's New Share

| $2 / 3 * 3 / 8$ | $1 / 4$ |
| :--- | :--- |
| $3 / 8-1 / 4$ | $1 / 8$ |
|  |  |
| $4 / 8+1 / 4$ | $3 / 4$ |
| $1 / 8+1 / 8$ | $1 / 4$ |

$2 / 3 \times 3 / 8$
3/8-1/4
$1 / 8+1 / 8 \quad 1 / 4$

$$
4 / 8+1 / 4
$$

$1 / 8+1 / 8$

Thus, New profit sharing ratio

| Naveen | Omprakash | Total |
| :--- | :--- | :--- |


| $3 / 4$ | $1 / 4$ |  |
| :---: | :---: | :---: |
| 3 | 1 | 4 |

## Gaining Ratio

| Naveen | Omprakash |
| :--- | :--- |
| $1 / 4$ | $1 / 8$ |

$\square$

1/8

