| Case 1 |  |  |  |
| :---: | :---: | :---: | :---: |
| Operating Profit Ratio | $=\quad$ Operating Profit | / | Revenue from Op |
|  | 300000 | / | 2000000 |
|  | $=15.00 \%$ |  |  |
| Case 2 |  |  |  |
| Step 1 |  |  |  |
| Operating Profit = | Revenue from operations 600000 | - | Operating Cost $510000$ |

Step 2
Operating Profit Ratio $=$ Operating Profit / Revenue from Operations X 100
90000 / 600000 X 100


## Step 4

| Operating Profit Ratio | = | Operating Profit $54000$ | / | Revenue from Operations$360000$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | = | 15.00\% |  |  |  |
| Case 4 |  |  |  |  |  |
| Step 1 |  |  |  |  |  |
| Operating Cost | $=$ | Cost of Goods Sold |  | + | Operating Expenses |
|  |  | 360000 |  | + | 22500 |

Step 4

| Operating Profit | $=$ | Revenue from operations <br> 450000 | Operating Cost <br> 382500 |
| ---: | :--- | :---: | :---: |
|  | $=67500$ |  |  |

Step 4

| Operating Profit Ratio $=$ | Operating Profit | $/$ | Revenue from Operations | X | 100 |
| :--- | :---: | :---: | :---: | :---: | :---: |
|  | 67500 | $/$ | 450000 | X | 100 |

$=15.00 \%$

Case 5
Step 1

| Gross Profit is $20 \%$ on sales |  |
| :--- | ---: |
| Let the sales be Rs 100 | 100 |
| Gross Profit | 20 |
| Cost of Goods Sold | 80 |

Now we want to find gross profit (numerator) from cost of goods sold (denominator)
Gross Profit $=20 / 80 \times 400000=100000$

## Step 2

| Operating Profit | $=$ Gross Profit |  |  |
| ---: | :--- | ---: | :--- |
|  |  |  | Operating Expenses |
| 25000 |  |  |  |


| Step 3 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Gross Profit |  | from operations | X | GP Ratio / | 100 |
| 100000 |  | x | X | 20 / | 100 |
| Revenue from Operations | = | Gross Profit | X | 100 / | GP Ratio |
|  |  | 100000 | X | 100 / | 20 |

Step 4

| Operating Profit Ratio | $=$ | Operating Profit | $/$ | Revenue from Operations | X |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 75000 | $/$ | 500000 | 100 |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

133 (a) No Change
(b) No Change
(c) No Change
(d) No Change

This will increase purchases as well as stock. So no impact on COGS
This will increase purchases as well as stock. So no impact on COGS
This transaction will increase the amount of operating profit and Revenue But the \% of Operating profit to Revenue will remain same

This will decrease purchases as well as stock. So no impact on COGS


## Step 4



## Step 4

| Net Profit Ratio | $=$ | Net Profit | $/$ | Revenue from Operations | X |
| ---: | :--- | :---: | :---: | :---: | :---: |

## Note :

Interest on Debentures is a non operating expense
Gain on Sale of Fixed asset is a non operating income

## 137 Step 1

| Operating Profit ratio | $=$ | 100 | - | Operating Ratio |
| ---: | :--- | :--- | :--- | :---: |
| 100 | - | 90 |  |  |
|  | $=$ | $10 \%$ |  |  |

## Step 2

| Operating Profit | $=$ | Revenue from operations | $X$ | Operating Profit Ratio |
| :---: | :---: | :---: | :---: | :---: |
| 400000 | $X$ | $10 \%$ |  |  |

## Step 3

| Net profit | $=$ | Operating Profit <br> 40000 | - | Non Operating Expenses | + | Non Operating Income |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |
|  |  | 60000 |  |  |  |  |

Step 4

| Net Profit Ratio | $=$ | Net Profit | $/$ | Revenue from Operations | X |
| ---: | ---: | ---: | ---: | ---: | ---: |


$=1200000$

Step 2
Return on Investment

| NP Before Interest and Tax | / | Capital Employed | X | 100 |
| :---: | :---: | :---: | :---: | :---: |
| 400000 | $/$ | 1200000 | X | 100 |

$=33.33 \%$

