## Retulin on Investment

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## What is ROI

- It is ratio of net income
- In simple - Excess of income over expenditure.


## Why Profits

- Reward for an entrepreneurs / Distributors.
- Profits are indications of the efficiency of utilization of the resources used in business.
- To meet the expenditure.
- For the purpose of plough backing.

Return on investment - Distributor point of view.

## INVESTMENT.


${ }^{\bullet}$ Office building.

- Warehouse.
${ }^{\bullet}$ Mechanized \& Non mechanized units.
- Tables \& Chairs.
${ }^{\bullet}$ File racks.
${ }^{\bullet}$ Computers \& Printers.
${ }^{\bullet}$ Others.
- Stocks.
- Market Credit.
${ }^{-}$Due to company.
- Deposit with company
${ }^{\bullet}$ Unpaid stocks.
- Damaged stocks.
${ }^{\bullet}$ Paid transit stocks.
- Advance bank drafts.


## What is Turnover?

${ }^{-}$In accounting, the number of times an asset is replaced during a financial period.

- In simple - Total business done in a particular period.
- Example-

Total Purchases - \$ 100,000.
Stock in hand - \$ 10,000.
Net sales - 90,000 .
So, the business turnover is $\$ 90,000$.

## What is rate of turnover?

- Rate of turnover is number of times the average stocks sold during a period of time.


## ${ }^{\bullet}$ Benefits of fast rate of turnover.

$\Rightarrow$ More rotations
$>$ More profits.
PMore return on investment.
$\Rightarrow$ Less capital.
PMore sales.
$>$ Fresh stocks in rotation.
PLow interest amount.
DMarket credit control.

## What is rate of turnover?

- Rate of turnover is number of times the average stocks sold during a period of time.


## ${ }^{\bullet}$ Disadvantages of fast rate of turnover.

- Requires more investment.
$\bullet$ Low rotations and low average margin.
$\bullet$ Low profits and piled up stocks.
- More market credit.
- Possibility of more expiry stocks.
- Delay in payments.
- More rate of interest.
- Low interest in business.


## What is rate of turnover?

- Rate of turnover is number of times the average stocks sold during a period of time.
${ }^{\bullet}$ Ways to increase rate of turnover.
- Increase in secondary sales.
- Increase in coverage and timely distribution.
- Spread credit to more outlets.
- Less due from company.
- Timely stock dispatches.
$\bullet$ Range selling.
- Management of minimum floor stock levels.
$\bullet$ Proper usage of product and trade promitions


## Return on investment calculations

Example -1

Gross Profit: $\quad \$ 2,000,000$
Expenses: \$1,000,000
Investment: \$ 500,000

Solution:
Gross Profit - Expenses $=$ Net Profit. $\quad$ x 100
Investment

2,000,000-1,000,000
500,000

Return on Investment:
200\%

## Return on investment calculations

Example -2
Gross Profit : $\quad \$ 100,000$
Expenses:

$$
\$ 30,000
$$

Investment: ..... \$ 50,000
Solution: $\underline{\text { Gross Profit }- \text { Expenses }=\text { Net Profit. }}$
Investment
\$100,000 - \$30,000100
\$50,000
Return on Investment:$140 \%$

## Return on investment calculations

## Example -3

Gross Profit : $\quad \$ 10,000$
Expenses: \$5,000
Investment:
\$ 25,000

Solution
Gross Profit - Expenses $=$ Net Profit.
x $\quad 100$
Investment

| $\$ 10,000-\$ 5,000$ |  |  |
| :---: | :---: | :---: |
| $\$ 25,000$ | x | 100 |

Return on Investment:
20\%

## Return on investment calculations

Example -4

| Stocks value : | $\$ 20,000$ |
| :--- | :--- |
| Distributor margin : | $5 \%$ |
| Expenses: | $\$ 2,00$ |
| Solution: | $\$ 952$ |
| Gross Profit: | $\$ 200$ |
| Expenses: | $\$ 752$ |

Solution:

| Net Profit. |  |  |  |
| :---: | :---: | :---: | :---: |
| Investment |  |  | 100 |
| $\underline{\$ 752}$ |  |  |  |
| $\$ 20,000$ |  |  |  |

Return on Investment:

## Return on investment calculations

$$
\text { Formula -1 ROI: } \frac{\text { Gross Profit }- \text { Expenses }=\text { Net Profit. }}{\text { Investment }} \quad \text { x } 100
$$

Net Profit:
Gross Profit - Expenses

Turnover

## Rotations

Avg investment

Simple Formula.
Gross Margin
x100

100+Gross Margin

Example:1
Gross Margin 3\%
$\frac{3}{100+3} \times 100 \quad \Rightarrow \quad 2.91$

Example:2
Gross Margin 7\%


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## Gross profit calculations

Example-1
Invoice price : ..... \$10,000
Distributor margin: ..... 6\%
Gross profit ..... $\$ 600$
Selling price ..... \$10.600
Example-2
Invoice price : ..... \$20,000
Distributor margin: ..... 5.5\%
Gross profit ..... \$1100
Selling price\$21100

## Cost price calculations

Example-1
Selling price $\quad \$ 10,000$
Distributor margin: 6\%
Gross profit \$566
Invoice price \$9,434
Example-2
Selling price \$20,000
Distributor margin: 5.5\%
Gross profit \$1,043
Invoice price \$18,957

Note: Selling price inclusive of distributor margin.

Now you know how to calculate "Return on investment"

## Step by step calculations

Problem-1

Invoice price
\$ 22,000

Distributor margin: 5\%
Calculate selling price
Solution.


Selling price:
\$23,100

Problem-2
Invoice price $\$ 46.300$
Distributor margin: 5.76\%
Calculate selling
price
Solution.
$\$ 46,300 \times \frac{5.76}{100}$

Selling price:
\$48,967

## Step by step calculations

Problem-3
Invoice price
Distributor margin:
\$ 22,000
5\%
Calculate - GP \& SP
Solution.
$\$ 22,000 x-5$

Gross Profit:
\$1,100
Selling price:
\$23,100

## Investment

## Expenses

## Rotations

## Margins

## Working Capital

1Paid stocks in warehouse.
2Market Credit.
3Pending claims from company.
4Damageed stocks in warehouse.
5Advances with company.
6Paid stock in transit.

## Minus

1Payment due to company.
2Unpaid stocks.

## Gross profit - Expenses $=$ Net profit

Problem-1
A. Turnover ..... \$20,000
B. Gross Margin ..... 5.77\%
C. Expenses ..... $\$ 800$
Calculate net profit
A. Gross profit\$1,091
B. Expenses ..... $\$ 800$
C. Net profit ..... \$291
( $\mathrm{A}-\mathrm{B}=\mathrm{C}$ )

## Problem-1

A. Turnover \$20,000
B. Gross profit
\$3500
C. Expenses
\$1100
Calculate net margin
A. Gross profit
\$3500
B. Expenses \$1100
C. Net profit $\$ 2400$
D. Net margin

12\%
Formula Net profit/ Turnover x \%

## Rotations calculations

## Turnover

## Formula :

## Average Investment

## Problem-1

A. Turnover \$20,000
B. Average Investment
\$500
Calculate number of rotations

Formula
Turnover
Average Investment
Rotations:
\$20,000
\$500

| Formula $: \frac{\text { Gross profit- Expenses }}{\text { Investment }}$ | $\times 100$ |
| :---: | :---: |
| or | Net profit |
| Formula $: \frac{\text { Investment }}{}$ |  |

## Return on investment calculations

|  | Problem-1 |  |
| :--- | :--- | :---: |
| A. | Invoice value | $\$ 20,000$ |
| B. | Margin | $5 \%$ |
| C. | Investment | $\$ 2,350$ |
| D. | Expenses | $\$ 500$ |
|  | Calculate Return on investment ( ROI) |  |

## Solution:

| Formula | $\$ 1000-\$ 500$ | x 100 |
| :---: | :---: | :---: |
| Formula | $\$ 2350$ | $\$ 500$ |
| ROI: $2.127 \%$ | $\$ 2350$ |  |

## Problem-2

A. Turnover \$30,000
B. Average stock value \$ 1000
C. Average market credit \$800
D. Pending claims from company \$500
E. Due to company \$300
F. Due from company \$200
G. Distributor margin 5\%
H. Salaries \$300
I. Discounts \$35
J. Fuel \$30
$\begin{array}{ll}\text { K. } & \text { Electricity } \\ & \text { Calculate Return on investment ( } R O I \text { ) }\end{array}$
\$20

## Return on investment calculations

| Solution. <br> A <br> B. <br> Gross Profit |  |  |
| :---: | :---: | :---: |
| Investment | $\$ 1428$ |  |
| C. | Expenses | $\$ 2200$ |
| Formula | $\$ 1428-\$ 385$ | $\$ 385$ |
|  | $\$ 2,200$ |  |
| Formula | $\$ 1.043$ |  |
| ROI: | $47.40 \%$ | $\$ 2,200$ |

## Return on investment calculations

| Problem-3 |  |  |  |
| :--- | :--- | :---: | :--- |
| A. | Turnover | $\$ 30,000$ |  |
| B. | Average stock value | $\$ 1000$ |  |
| C. | Average market credit | $\$ 800$ |  |
| D. | Pending claims from company | $\$ 500$ |  |
| E. | Due to company | $\$ 300$ |  |
| F. | Due from company | $\$ 200$ |  |
| G. | Distributor margin | $5 \%$ |  |
| H. | Salaries | $\$ 300$ |  |
| I. | Discounts | $\$ 35$ |  |
| J. | Fuel | $\$ 30$ |  |
| K. | Electricity | $\$ 20$ |  |
|  | Calculate |  |  |
| 1 | Gross Profit | 6 | Investment |
| 2 | Net Profit |  |  |
| 3 | Rotations |  |  |
| 4 | Expenses |  |  |
| 5 | Invoice Price |  |  |

## Solution

| 1Gross Profit: | Turnover x 4.76\% | :\$ 1,428 |
| :---: | :---: | :---: |
| 2Net Profit : | Gross profit- Expenses | :\$ 1,043 |
| 3Rotations: | Turnover/ Investment | : 13.63 |
| 4Expenses: | Expenses | \$385 |
|  | Turnover $\mathrm{x} 4.76 \%$ (- |  |
| 5Invoice price: | T/O) | \$28,572 |
| 6Investment: | $(\mathrm{b}+\mathrm{c}+\mathrm{d}+\mathrm{f}-\mathrm{e})$ | \$2,200 |
|  | Net proft/ Investment |  |
| \% ROI | ${ }_{x} \%$ | 47.40\% |

## Investment conversions

## Problem-1

A. Average stock 10 days
B.
C.
D.

Average market credit 6 days
C.

Average pending from company
12 days
Turnover \$100,000

Calculate investment in value(\$)

## Return on investment calculations

## Investment conversions


$\frac{10}{365} \times 100: 2.74 \%$

Market credit: $\quad$| 6 | 365 |
| :---: | :---: | x $100 \quad 1.64 \%$

Pending from company:- $\frac{12}{365}$ x $100: 3.28 \%$

| Investment \%: | $2.74+1.64+3.28$ | $: 7.66 \%$ |
| ---: | :---: | :---: |
| Investment \$: | $100,000 \times 7.66 \%$ | $: \$ 7,660$ |

## Investment conversions

## Problem-2

$$
\text { A. Turnover } \$ 100,000
$$

B. Average stocks per day $\$ 340$
C. Average market credit per day \$230
D. Average pending claims per day \$210
E. Average due from company per day $\$ 110$

Convert the investment in \%

## Return on investment calculations

## Investment conversions

## Solution

Turnover in days:$\frac{100,000}{365}: 273.97$
Stocksin days:$-\frac{340}{273.97}: 1.24$

Crediti in days:$\frac{230}{273.97}: 0.83$

Pending in days $: \frac{210}{273.97}: 0.76$
Due from in days:-$\frac{110}{273.97}: 0.40$

Total investment in days: 3.23

## Return on investment calculations

## Investment conversions



Crediti :$\frac{0.83}{365}$ x $100 \quad 0.22 \%$


Total investment \%
0.85

## Return on investment calculations

## How to maintain investment record

| Investment record |  |  |  |  |  |  |  | all \$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Sales |  |  |  | Investmen |  |  |  |
| Week | This week | Cumulativ e week | Expecte d sales | Stock <br> value | Market credit | Due from company | Total investme nt | Investmen t \% | Rotations |
| 1 | 1.00 | 1.00 | 52.00 | 2.00 | 1.00 | 1.16 | 4.16 | 8.00 | 12.50 |
| 2 | 2.00 | 3.00 | 78.00 | 2.10 | 1.00 | 0.80 | 3.90 | 5.00 | 20.00 |
| 3 | 1.00 | 4.00 | 69.00 | 1.00 | 1.00 | 1.00 | 3.00 | 4.34 | 23.00 |
| 4 | 2.50 | 6.50 | 84.50 | 1.80 | 1.20 | 0.60 | 3.60 | 4.26 | 23.47 |
| 5 | 3.00 | 9.50 | 98.80 | 0.80 | 1.20 | 0.30 | 2.30 | 2.32 | 42.96 |
| 6 | 1.00 | 10.50 | 91.00 | 0.60 | 0.60 | 0.60 | 1.80 | 1.97 | 50.56 |
| 7 | 0.50 | 11.00 | 81.70 | 2.00 | 1.00 | 1.00 | 4.00 | 4.89 | 20.43 |
| 8 | 0.30 | 11.30 | 73.45 | 2.10 | 2.10 | 3.00 | 7.20 | 9.80 | 10.20 |

## How to maintain investment record

## Uses of investment record

$\Rightarrow$ Can know week wise sales
$\Rightarrow$ Can know week wise investment
$\Rightarrow$ Can know week wise stocks
$\Rightarrow$ can know week wise market credit
$\Rightarrow$ can know rotations
$\Rightarrow$ Can know investment
$\Rightarrow$ Can know margin
$\Rightarrow$ Can know ROI


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