Return on Investment

Abdul Gafoor

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.

FIXED

- •Office building.
- •Warehouse.
- •Mechanized & Non mechanized units.
- Tables & Chairs.
- •File racks.
- •Computers & Printers.
- •Others.

WORKING

- •Stocks.
- Market Credit.
- •Due to company.
- Deposit with company
- •Unpaid stocks.
- •Damaged stocks.
- •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.
- •Benefits of fast rate of turnover.
- More rotations
- More profits.
- More return on investment.
- Less capital.
- More sales.
- Fresh stocks in rotation.
- Low interest amount.
- Market credit control.



What is rate of turnover?

- •Rate of turnover is number of times the average stocks sold during a period of time.
- •Disadvantages of fast rate of turnover.
- •Requires more investment.
- •Low rotations and low average margin.
- •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.
- •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.
- •Range selling.
- Management of minimum floor stock levels.
- Proper usage of product and trade promitions



Example -1

Gross Profit: \$ 2,000,000

Expenses: \$1,000,000

Investment: \$ 500,000

Solution: Gross Profit - Expenses = Net Profit. x 100

Investment

2,000,000 -1,000,000 500,000 x 100

Return on Investment: 200%



Example -2

Gross Profit: \$100,000

Expenses: \$30,000

Investment: \$ 50,000

Solution: Gross Profit - Expenses = Net Profit.

x 100

Investment

\$100,000 - \$30,000

x 100

\$50,000

Return on Investment:

140%



Example -3

Gross Profit: \$10,000

Expenses: \$5,000

Investment: \$ 25,000

Solution: Gross Profit - Expenses = Net Profit.

Investment

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

100

 \mathbf{X}

Return on Investment: 20%



Example -4

Stocks value: \$20,000

Distributor margin: 5%

Expenses: \$ 2,00

Solution:

Gross Profit: \$952

Expenses: \$200

Net Profit: \$752

Solution: Net Profit. x = 100Investment

\$752 x 100

\$20,000

Return on Investment: 3.76%



Formula -1 **ROI:** Gross Profit - Expenses = Net Profit. x 100

Investment

Net Profit: Gross Profit - Expenses

Turnover

Rotations Avg investment



Cost price calculations

Simple Formula.

Gross Margin

x100

100+Gross Margin

Example:1

Gross Margin 3%

3 100+3

2.91

Example:2

Gross Margin 7%

107

→ 6.54



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 \$10,000

Distributor margin: 6%

Gross profit \$566

Invoice price \$9,434

Example-2

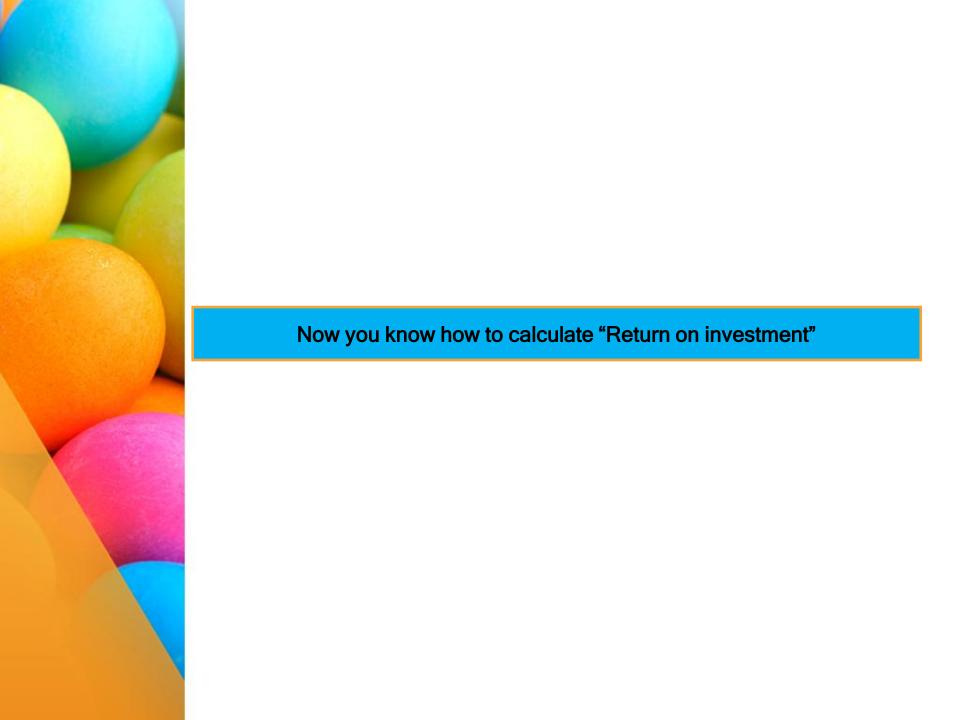
Selling price \$20,000

Distributor margin: 5.5%

Gross profit \$1,043

Invoice price \$18,957

Note: Selling price inclusive of distributor margin.





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.

Selling price: \$48,967



Step by step calculations

Problem-3

Invoice price \$ 22,000

Distributor margin: 5%

Calculate - GP & SP

Solution.

Gross Profit: \$1,100

Selling price: \$23,100



Step by step calculations

Investment

Expenses

Rotations

Margins



Investment calculations

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
В.	Gross Margin	5.77%
C.	Expenses	\$800
	Calculate net profit	
A.	Gross profit	\$1,091
В.	Expenses	\$800
C.	Net profit	\$291
	(A-B=C)	



Net margin calculations

	Problem-1	
A.	Turnover	\$20,000
В.	Gross profit	\$3500
C.	Expenses	\$1100
	Calculate net margin	
A.	Gross profit	\$3500
В.	Expenses	\$1100
C.	Net profit	\$2400
D.	Net margin	12%
<i>Formula</i>	Net profit/ Turnover x %	



Rotations calculations

Formula : –	Turnover
i Olimula .	Average Investment

	Problem-1	
A.	Turnover	\$20,000
B.	Average Investment	\$500
	Calculate number of rotations	
Formula	Turnover	
<u>1 Ollilula</u>	Average Investment	
Datationa	\$20,000	40
Rotations:	\$500	



Gross profit- Expenses x 100

Investment

or

Formula:

Net profit

x 100

Investment



Prob	blem-1

0,000
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B. Margin 5%

C. Investment \$ 2,350

D. Expenses \$500

Calculate Return on investment (ROI)

Solution:

Formula ——	\$1000 - \$ 500	x 100
101111u1a ——	\$2350	X 100
Formula ——	\$500	x 100
	\$2350	———X 100

ROI: 2.127%



Proble.	m-2
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A.	Turnover	\$30,000
В.	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%
Н.	Salaries	\$ 300
I.	Discounts	\$35
J.	Fuel	\$30
K.	Electricity	\$20
	Calculate Return on investment (ROI)	



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A	Gross Profit	\$1428
		T

ROI: 47.40%



Problem-3

A.	Turnover	\$30,000	
B.	Average stock value	\$ 1000	
C.	Average market credit	\$800	
D.	Pending claims from company	\$ 500	
Ε.	Due to company	\$ 300	
F.	Due from company	\$ 200	
G.	Distributor margin	5%	
Н.	Salaries	\$ 300	
I.	Discounts	\$35	
J.	Fuel	\$30	
K.	Electricity	\$20	
	<u>Calculate</u>		
1	Gross Profit	6	Investment
2	Net Profit	7. ROI	
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 Turnover x 4.76% (-	\$385	
5Invoice price:	T/O)	<i>\$28,572</i>	
6Investment:	(b+c+d+f-e)	\$ 2,200	
	Net proft/ Investment		
7ROI	x%	47.40%	



Investment conversions

Problem-1

Α.	Average stock	10 days
11.	Tiverage stock	10 days

B. Average market credit 6 days

C. Average pending from company 12 days

D. Turnover \$100,000

Calculate investment in value(\$)

Investment conversions

Investment %: 2.74+1.64+3.28 : 7.66%

Investment \$: 100,000 x 7.66% :\$ 7,660



Investment conversions

Problem-2

A.	Turnover	\$100,000
В.	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 %	



Investment conversions

Solution

Turnover in days: 100,000 : 273.97 : 365 : 340

Pending in days :—_____:0.76

Total investment in days: 3.23



Investment conversions



How to maintain investment record

Investment record

all \$

Sales		Investment							
Week	This week	Cumulativ e week	Expecte d sales	Stock 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

- →Can know week wise sales
- Can know week wise investment
- → Can know week wise stocks
- can know week wise market credit
- → can know rotations
- Can know investment
- →Can know margin
- → Can know ROI



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