MODULE - 6

Analysis of Financial Statements



ACCOUNTING RATIOS - I



In the previous lesson, you have learnt the relationship between various items of the financial statements. You have also learnt various tools of analysis of financial statements such as comparative statements, common size statement, and trend analysis. However, like the above tools another important tool which is very useful to examine the financial statements is ratio analysis. Accounting ratios are calculated from the financial statements to arrive at meaningful conclusions pertaining to liquidity, profitability, and solvency. Accounting ratios can be of different types. In this lesson, we will learn about different types of accounting ratios and their methods of calculation.



After studying this lesson, you will be able to :

- state the meaning of accounting ratio;
- classify the accounting ratios;
- explain various types of accounting ratios on the basis of liquidity and turnover.

32.1 OBJECTIVES OF RATIO ANALYSIS

Ratios are regarded as a test of earning capacity, financial soundness and operating efficiency of a business organisation. The use of ratios in accounting and financial management analysis helps the management to know the profitability, financial position (liquidity and solvency) and operating efficiency of an enterprises.

The objectives of ratio analysis may be better understood by the following advantages of ratio analysis.

Advantages and Uses of Ratio Analysis

The advantages derived by an enterprise by the use of accounting ratios are:

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i.



Notes

- **Useful in Analysis of Financial Statements :** Accounting ratios are useful for understanding the financial position of the enterprise. Bankers, investors, creditors, etc., all analyse Balance Sheets and Profit and Loss Accounts by means of ratios.
- **ii.** Useful in Simplifying Accounting Figures : Accounting ratio simplifies, summarises and systematises a long array of accounting figures to make them understandable. Its main contribution lies in communicating precisely the interrelationships which exist between various elements of financial statements.
- **iii.** Useful in Judging the Operating Efficiency of Business : Accounting ratios are essential for understanding the affairs of an enterprise, specially its operating efficiency. Accounting ratios are also useful for diagnosis of the financial health of an enterprise. This is done by evaluating liquidity, solvency, profitability, etc. Such an evaluation enables the management to assess financial requirements and the capabilities of various business units.
- **iv. Useful for Forecasting :** Ratios are helpful in business planning and forecasting. The trend ratios are analysed and used as a guide to future planning. What should be the course of action in the immediate future is decided, many a times, on the basis of trend ratios, *i.e.*, ratios calculated for a number of years.
- v. Useful in Locating the Weak Spots : Accounting ratios are of great assistance in locating the weak spots in the business even though the overall performance may be quite good. Management can pay attention to the weakness and take remedial action. For example, if the firm finds that the increase in distribution expenses is more than proportionate to the results achieved, these can be examined in detail and depth to remove any wastage that may be there.
- vi. Useful in Inter-firm and Intra-firm Comparison : A firm would like to compare its performance with that of other firms and of industry in general. The comparison is called inter-firm comparison. If the performance of different units belonging to the same firm is to be compared, it is called intra-firm comparison. Such comparison is almost impossible without accounting ratios. Even the progress of a firm from year to year cannot be measured without the help of ratios. The accounting ratios are the best tools to compare the various firms and divisions of a firm.

32.2 MEANING AND ITS CLASSIFICATION

The ratio is an arithmetical expression i.e. relationship of one number to another. It may be defined as an indicated quotient of the mathematical expression. It is expressed as a proportion or a fraction or in percentage or in terms of number of times. A financial ratio is the relationship between two accounting figures expressed mathematically. Suppose two accounting figures of a concern are sales ₹ 1,00,000 and profits ₹ 15,000. The ratio between these two figures will be

 $\frac{15,000}{1,00,000} = 3:20 \text{ or } 15\%$

Ratios provide clues to the financial position of a concern. These are the indicators of financial strength, soundness, position or weakness of an enterprise. One can draw conclusions about the financial position of a concern with the help of accounting ratios.

Suppose one shopkeeper (X) earns a profit of ₹1,000 and another (Y) earns ₹20,000which one is more efficient? We may say that the one who earns a higher profit is running his shop better. In fact to answer the questions, we must ask, how much is the capital employed by each shopkeeper? Let, X employ ₹1,00,000 and Y ₹4,00,000. We can work out the percentage of profit earned by each to the capital employed. Thus.

X =
$$\frac{₹10,000}{₹1,00,000}$$
 X 100 = 10%
Y = $\frac{₹20,000}{₹1,00,000}$ X 100 = 5%

$$=$$
 $\overline{100}$ X 100 =

These figures show that for every ₹100 of capital, X earns ₹10 and Y earns ₹5. X is obviously making a better use of the funds employed by him. He must be treated as more efficient of the two. The above example shows that absolute figures by themselves do not communicate the meaningful information.

Broadly accounting ratios can be grouped into the following categories :

- (a) Liquidity ratios (c) Solvency ratios (b) Activity ratios
- (c) Profitability ratios

Liquidity Ratios

The term liquidity refers to the ability of the company to meet its current liabilities. Liquidity ratios assess capacity of the firm to repay its short term liabilities. Thus, liquidity ratios measure the firms' ability to fulfil short term commitments out of its liquid assets. The important liquidity ratios are :

- Current Ratio (i)
- (ii) Quick Ratio
- **Current Ratio**: Current ratio is a ratio between current assets and current **(i)** liabilities of a firm for a particular period. This ratio establishes a relationship between current assets and current liabilities. The objective of computing this ratio is to measure the ability of the firm to meet its short term liability. It compares the current assets and current liabilities of the firm. This ratio is calculated as under:









Notes

Current Assets are those assets which can be converted into cash within a short period i.e. not exceeding one year. It includes the following :

Cash in hand, Cash at Bank, Trade Receivables, Short term investment, Stock, Prepaid expenses.

Trade Receivables include Bills Receivables and Sundry Debtors.

Current liabilities are those liabilities which are expected to be paid within a year. It includes the following :

Trade Payables, Bank overdraft, Provision for tax, Outstanding expenses.

Trade Payables include Sundry Creditors and Bills Payables.

Significance

It indicates the amount of current assets available for repayment of current liabilities. Higher the ratio, the greater is the short term solvency of a firm and vice - versa. However, a very high ratio or very low ratio is a matter of concern. If the ratio is very high it means the current assets are lying idle. Very low ratio means the short term solvency of the firm is not good. Thus, the ideal current ratio of a company is 2 : 1 i.e. to repay current liabilities, there should be twice current assets.

Illustration 1

Calculate current ratio from the following :

	₹
Sundry debtors	4,00,000
Stock	160,000
Marketable securities	80,000
Cash	120,000
Prepaid expenses	40,000
Bill payables	80,000
Sundry creditors	160,000
Debentures	200,000
Outstanding Expenses	160,000
~	

Solution :

 $Current Ratio = \frac{Current Assets}{Current Liabilities}$

Accounting Rat	MODULE - 6		
Current Assets	=	Sundry Debtors + Stock + Marketable Securities + Cash + Prepaid Expenses	Analysis of Financial Statements
	=	₹ (400,000 + 160,000 + 80,000 + 120,000 + 40,000)	
	=	₹ 800,000	
Current Liabilities	=	Bill Payables + Sundry Creditors + Outstanding Expenses	
	=	₹ (80,000 + 160,000 + 160,000) = ₹ 400,000	
Current Ratio	=	$\frac{₹ 8,00,000}{₹ 4,00,000} = 2:1$	Notes

(ii) Quick Ratio : Quick ratio is also known as Acid test or Liquid ratio. It is another ratio to test the short-term solvency of the concern. This ratio establishes a relationship between quick assets and current liabilities. This ratio measures the ability of the firm to pay its current liabilities. The main purpose of this ratio is to measure the ability of the firm to pay its current liabilities. For the purpose of calculating this ratio, stock and prepaid expenses are not taken into account as these may not be converted into cash in a very short period. This ratio is calculated as under:

> Liquid or Quick Assets Liquid Ratio = **Current Liabilities**

where, liquid assets = current assets -(stock + prepaid expenses)

Significance

Quick ratio is a measure of the instant debt paying capacity of the business enterprise. It is a measure of the extent to which liquid resources are immediately available to meet current obligations. A quick ratio of 1:1 is considered good/favourable for a company.

Illustration 2

Taking the same information as given in illustrated 1 calculate the quick ratio.

Solution :

Quick Ratio	= -	Liquid or Quick Assets Current Liabilities
Ouick Assets	=	Currents Assets – (Stock + Prepaid Expenses)
Zuieni isseus	=	₹ 8,00,000 – (₹ 1,60,000 + ₹ 40,000) = ₹ 6,00,000
Current Liabilities	=	₹ 6,00,000
Quick Ratio	= -	$\frac{\notin 6,00,000}{\notin 6,00,000} = 1:1$

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Illustration 3

Calculate liquidity ratios from the following information :

Total current assets	₹ 90,000
Stock (included in current assets)	₹ 30,000
Prepaid expenses	₹ 3,000
Current liabilities	₹ 60,000

Solution :

٨	Current Ratio	_	Current Assets	_	₹90,000
Α.		=	Current Liabilities	=	₹60,000
		=	3 : 2 or 1.5 : 1		
B.	Liquid ratio	=	Current Asset - (Stoc	k + Prep	paid Expenses)
			Current	Liabiliti	es
		=	<u>₹57,000</u> = 0.95 :	1.0	

Illustration 4

The balance sheet of ABCD Ltd. shows the following figures :

₹	152,000
₹	30,000
₹	113,000
₹	20,000
₹	24,000
₹	4,000
₹	18,000
₹	52,000
₹	8,000
₹	5,000
	₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹

Solution :

			Current Assets
(1)	Current Ratio	=	Current Liabilities

where,

Current Assets	=	Cash in hand and at bank + Debtors + Stock
	=	₹ 30,000 + ₹ 18,000 + ₹ 52,000
	=	₹ 1,00,000
Current Liabilities	=	Creditors + Bill Payable
	=	₹20,000 + ₹4,000
	=	₹ 24,000
	=	₹ 1,00,000 ₹ 24,000 = 4.26 : 1
Ouick Ratio = -	Curren	tAssets
Zummin	Current	Liabilities

where,

(ii)

Quick assets = Current Assets – Stock
= ₹ 1,00,000 – ₹ 52,000
= ₹ 48,000
Quick ratio =
$$\frac{₹48,000}{₹24,000} = 2:1$$

Illustration 5

From the following information, if ₹ 1000 is paid to creditors what will be the effect (increase or decrease or no change) on current ratio, if before payment, balances are : Cash ₹ 15000, Creditors ₹ 7,500?

Solution :

Current Ratio	=	Current Assets Current Liabilities
Before payment	=	$\frac{\text{Cash}}{\text{Creditors}} = \frac{\cancel{15,000}}{\cancel{7,500}} = 2:1$
After payment	=	₹1000 to creditors
Current Ratio	=	$\frac{\text{Cash}}{\text{Creditors}} = \frac{\underbrace{₹15,000 - ₹1,000}}{₹7,500 - ₹1,000}$
	=	<u>₹14,000</u> ₹6,500 = 2.15 : 1



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Hence, it increases the current ratio from 2 : 1 to 2.15 : 1

INTEXT QUESTIONS 32.1

Select the current assets from the list given below

Cash at bank	Debtors
Inventory	Prepaid expenses
Short term investment	Goodwill
Building	Cash in hand
Furniture	

Bill Receivables

II. Fill in the blanks with suitable words or figures :

- (i) Current Ratio = $\frac{}{Current Liabilities}$
- (ii) The ideal current ratio is
- (iii) The ideal liquid ratio is
- (iv) Liquid assets = (Stock + prepaid expenses)

III. State whether the following statements are true or false :

- (i) Ratios are not helpful in business planning and forecasting.
- (ii) Accounting ratios are useful for understanding the financial position of the enterprise.

32.3 ACTIVITY OR TURNOVER RATIOS

Activity ratios measure the efficiency or effectiveness with which a firm manages its resources. These ratios are also called turnover ratios because they indicate the speed at which assets are converted or turned over in Revenue from operations (sales). These ratios are expressed as 'times' and should always be more than one. Some of the important activity ratios are :

- (i) Inventory turnover ratio (Stock turnover ratio)
- (ii) Trade Receivables turnover ratio (Debtors turnover ratio)
- (iii) Trade Paybles turnover ratio (Creditors turnover ratio)
- (iv) Working capital turnover ratio

Accounting Ratios - I

(i) Inventory Turnover Ratio (Stock Turnover Ratio)

Inventory turnover ratio is a ratio between cost of revenue from operation and the average inventory. Every firm has to maintain a certain level of inventory of finished goods. But the level of inventory should neither be too high nor too low. It evaluates the efficiency with which a firm is able to manage its inventory. This ratio establishes relationship between cost of revenue from operation and average inventory.

	Inventory Turnover Ratio = $-$	Cost of R	Average Inventory
Cos	at of Revenue from Operation	=	Opening Inventory + Net Purchases + Direct expenses – Closing Inventor
OR	Cost of Revenue from Operation	=	Net Sales – Gross Profit
	Average Inventory = -	Openir	ng Inventory + Closing Inventory 2

- (i) If cost of revenue from operation is not given, the ratio is calculated from revenue from operations (sales).
- (ii) If only closing inventory is given, then that may be treated as average inventory.

Significance

The ratio signifies the number of times on an average the inventory or stock is disposed off during the period. The high ratio indicates efficiency and the low ratio indicates inefficiency of stock management.

Illustration 6

Calculate inventory turnover ratio from the following information:

Opening inventory		₹ 45000
Closing inventory		₹ 55000
Net Purchases		₹ 160000
Solution : Inventory Turnover Ratio	=	Cost of Revenue from Operations Average Inventory
Average Inventory Average Inventory	=	$\frac{2}{2}$ $\boxed{\frac{3}{2}}{2}$

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	Accounting Ratios - I
=	₹ 50000
Cost of Revenue from Operations	= Opening Inventory + Net Purchases – Closing Inventory
	= ₹45000 + ₹160000 - ₹55000
	= ₹150000
Inventory Turnover Ratio	$= \frac{₹ 1,50,000}{₹ 50,000} = 3 \text{ times}$
Illustration 7	
Opening Inventory	₹ 19,000
Closing Inventory	₹ 21,000
Revenue from Operations (Sales)	₹ 2,00,000
Gross Profit 25% of revenue from oper	rations. Calculate inventory turnover ratio.
Solution :	
Cost of Revenue from Operations	= Revenue from Operations – Gross profit
	= ₹2,00,000 – 25% of ₹2,00,000
	= ₹(2,00,000 - 50,000)
	= ₹1,50,000
Average Inventory = Oper	ning Inventory + Closing Inventory 2
= ₹(19,0	$\frac{000+21,000)}{2}$
= ₹20,0	000
Inventory turn over Ratio = -	Cost of Revenue from Operations Average Inventory
= -	₹ 1,50,000 ₹ 20,000 = 7.5 times

Accounting Ratios - I				
Illustration 8				
Annual sales			₹	4,00,000
Gross profit 20% on sales				
Opening Inventory			₹	38,500
Closing Inventory			₹	41,500
Calculate inventory turnover ratio.				
Solution :				
Inventory turnover Ratio	=	Cost of Rev	enue from O	perations
·		Av	erage Invento	ory
Costs of revenue from Ooperations	=	Sales – Gr	oss profit	
	=	₹4,00,000	– (20% on 🕏	₹ 4,00,000)
	=	₹4,00,000	-₹80,000	
	=	₹ 320,000		
Average Inventory = $\frac{\text{Oper}}{38,500}$ = $\frac{38,500}{40,00}$	$\frac{1}{2}$	$\frac{2}{500} = \frac{800}{2}$	oing Inventor	<u>y</u>
Inventory turnover Ratio =	₹3,20 ₹40	$\frac{0,000}{,000} = 8 \tan \theta$	nes	
Illustration 9				
From the following information calculat	te open	ing inventory a	and closing in	ventory:
Revenue from operations (sales) during	g the ye	ear =	₹2,00,0	000
Gross profit on sales		=	50%	
Inventory turnover ratio		=	4 times	
If closing inventory was ₹ 10,000 mor amount for the opening inventory and c	e than losing i	the opening in nventory?	nventory what	at will be the
Solution :				
Revenue from Operations (Sales)	=	₹2,00,000	(given)	

50% (given)

=

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Gross profit on sales

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	50				
Gross profit =	$2,00,000 \times \frac{30}{100} = 1,00,000$				
Cost of Revenue from operatio	n = Sales - Gross profit				
	= ₹ 2,00,000 - ₹ 1,00,000				
	= ₹1,00,000				
Inventory Turnover Ratio	= Cost of Revenue from Operations Average Inventory				
4	$= \frac{1,00,000}{\text{Average Inventory}}$				
By cross multiplying	Average inventory				
Average Inventory	$= \frac{\overline{1,00,000}}{4} = \overline{1,00,000}$				
Assessor Terroritory	Opening Inventory + Closing Inventory				
Average inventory	= 2				
Let opening inventory be x					
Closing Inventory =	x + 10,000				
Average Inventory = -	$\frac{x + x + 10,000}{2} = 25,000 \text{ (given)}$				
or $x + x + 10,000 =$	50,000				
or $2x =$	50,000 - 10,000				
or $2x =$	40,000				
or $x =$	20,000				
Hence, Opening Inventory	= ₹20,000				
Closing Inventory	= ₹ 20,000 + ₹ 10,000				
	= ₹ 30,000				
Fill in the blanks with suitable word/words :					
(i) Inventory turnover ratio is	s divided by average inventory.				

Accounting Ratios - I

(ii) Average inventory = $\frac{\text{Opening Inventory} + \dots}{2}$

(iii) Inventory turnover ratio = $\frac{10,000}{?}$ = 5 times (iv) Inventory turnover ratio = $\frac{30,000}{10,000}$ =



Notes

(ii) Trade Receivable Turnover Ratio (Debtors Turnover ratio)

This ratio establishes a relationship between cost of revenue from operations and average trade receivables i.e. average trade debtors and bill receivables. The objective of computing this ratio is to determine the efficiency with which the trade receivables are managed. This ratio is also known as Ratio of Revenue from Operations (Net Sales) to Average Trade Receivables. It is calculated as under

Trade Receivable Turnover Ratio =

Credit Revenue from Operations (Net Credit Sales) Average Trade Receivables

In case, figure of credit revenue from operations (net credit sale) is not available then the sales are treated as credit sales :

Average Trade Receivables =

Opening Debtors & Bills Receivable + Closing Debtors & Bills Receivable 2

Note : If opening trade receivables are not available, then closing trade receivables are taken as average trade receivables.

Significance

Debtors turnover ratio is an indication of the speed with which a company collects its debts. The higher the ratio, the better it is because it indicates that debts are being collected quickly. In general, a high ratio indicates the shorter collection period which implies prompt payment by debtor and a low ratio indicates a longer collection period which implies delayed payment for debtors.

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Illustration 10

Find out trade receivable turnover from the following information for one year ended 31st March 2014.

	31st March 2014
Annual credit revenue from operations	500000
Trade receivable in the beginning	80000
Trade receivable at the end	100000
Solution	

Average Trade Receivables =

(Opening Trade Receivable + Closing Trade Receivable		
		2	
Trade Receivables Turnover	=	Credit Revenue from Operations Average Trade Receivables	
Average Trade Receivables	=	$\frac{80,000+1,00,000}{2} = ₹ 90,000$	
Trade Receivable Turnover F	Ratio	$=$ $\frac{5,00,000}{90,000}$ = 5.56 times	

(iii) Trade Payables Turnover Ratio (Creditors Turnover Ratio)

It is a ratio between net credit purchases and average trade payables (i.e creditors and Bill payables). In the course of business operations, a firm has to make credit purchases. Thus a supplier of goods will be interested in finding out how much time the firm is likely to take in repaying the trade payables. This ratio helps in finding out the exact time a firm is likely to take in repaying to its trade payables. This ratio establishes a relationship between credit purchases and average trade payables.

Trade Payables Turnover Ratio	Net Credit Purchases
Trade Tayables Turnover Ratio =-	Average Trade Payables

Average Trade Payables =

Opening Creditors + Opening Bill Payables + Closing Creditors + Closing Bills Payables

2

Significance

Trade Payables turnover ratio helps in judging the efficiency in getting the benefit of credit purchases offered by suppliers of goods. A high ratio indicates the shorter payment period and a low ratio indicates a longer payment period.

Illustration 11

Calculate trade payables turnover ratio from the following information :

		₹		₹
Cash purchases		1,00,000	Total purchases	4,07,000
Opening creditors		25,000	Closing creditors	50,000
Closing bill payables		25,000	Opening bill payables	20,000
Purchase returns		7,000		
Solution :				
Trade Payables Turnov	ver Ratio	$=\frac{\text{Net}}{\text{Aver}}$	Credit Purchases rage Trade Payables	
Net purchases	=	Total purc	hases – Purchase returns	
	=	₹407000	-₹7000 =₹400000	
Net credit purchases	=	Net purch	ases – cash purchases	
	=	₹4,00,000) – ₹ 1,00,000	
	=	₹ 3,00,000)	
Average Trade Payable	es	=		
Opening Creditors +	Opening	Bill Payables	s + Closing Creditors + Clos	ing Bills Payables
			2	
	_	₹25,000 -	+ ₹20,000 + ₹5,000 + ₹	25,000
	_		2	
	=	₹1,20,000 2	$\frac{0}{1}$ = Rs 60,000	
Trade PayablesTurnov	er Ratio	= ₹3,00, ₹60,0	$\frac{000}{000} = 5$ times	
Illustration 12				
Calculate trade payable	es turnov	ver ratio.		
Credit purchases durin	g the yea	ar		₹ 14,40,000
Closing creditors				₹ 1,44,000
Closing Bill payables				₹ 96,000
Solution :		N T - 4	Credit Durchassa	
Trade Payables Turnover Ratio = Average Trade Payables				
Average fraue Payables				



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$$= \frac{₹14,40,000}{₹1,44,000 + ₹96,000}$$
$$= \frac{₹14,40,000}{₹2,40,000} = 6 \text{ times}$$

Note : Where opening creditors and opening bill payables are not given then closing creditors and bill payables are taken as average trade payables.

Working Capital Turnover Ratio

Working capital of a concern is directly related to revenue from operations (sales). The current assets like debtors, bill receivables, cash, stock etc, change with the increase or decrease in revenue from operations.

Working Capital = Current Assets – Current Liabilities

Working capital turnover ratio indicates the speed at which the working capital is utilised for business operations. It is the velocity of working capital ratio that indicates the number of times the working capital is turned over in the course of a year. This ratio measures the efficiency at which the working capital is being used by a firm. A higher ratio indicates efficient utilisation of working capital and a low ratio indicates the working capital is not properly utilised.

This ratio can be calculated as

Working Capital Turnover Ratio – Cost of Revenue from Operatio	ons				
Average Working Capital	Average Working Capital				
Average Working Capital - Opening Working Capital + Closing Working Cap	pital				
2	2				
If the figure of cost of revenue from operations is not given, then the figure of revenue from operations (sales) can be used. On the other hand if opening working capital is not given then working capital at the year end will be used.	of 1g d.				
Illustration 13					
Find out working capital turnover ratio for the year 2014.					
	₹				
Cash 10,0	000				
Bills receivable 5,0	000				
Sundry debtors 25,0	000				
inventory 20,0	000				

Sundry creditors

Cost of Revenue from Operations

Solution :

Cost of Revenue from Operations Working Capital Turnover Ratio Average Working Capital

₹10,000 + ₹5,000 + ₹25,000 + ₹20,000

- Current Assets =
 - ₹60.000 =
- ₹ 30,000 Current Liabilities =
- CA CL = ₹ 60,000 ₹ 30,000 Net working capital =₹30,000

₹1,50,000 ₹30,000 = 5 times So, Working Capital Turnover Ratio =

INTEXT QUESTIONS 32.3

I. Fill in the blanks with suitable word or words.

=

- Low trade receivables turnover ratio indicates collection. (i)
- Debtors turnover ratio = (ii) Average Trade Paybles
- Net Credit Purchases Average Trade Paybles (iii) ? = -
- (iv) Trade Receivable Turnover Ratio = $\frac{?}{50.000} = 4$ (v) Trade Receivable turnover ratio = $\frac{1,50,000}{2} = 3$
- (vi) Trade Payables turnover ratio = $\frac{75,000}{15,000}$ = ?

(viii) Trade Payables turnover ratio =
$$\frac{1,00,000}{?} = 4$$

- Fill in the blanks with suitable word or words : II.
 - Working capital = current liabilities (i) Cost of Revenue from Operations (ii) ••••

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30,000

1,50,000

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(iii) Average working capital =

Opening Working Capital + Closing Working Capital

?

(iv) Working Capital Turnover Ratio = Cost of Revenue from Operations Average Working Capital

WHAT YOU HAVE LEARNT

- The term ratio means an arithmatical relationship between two numbers.
- Advantages and uses of Ratio Analysis
 - (i) Useful in Analysis of Financial Statements.
 - (ii) Useful in Simplying Accounting Figures.
 - (iii) Useful for Forecasting.
 - (iv) Useful in Locating the Weak spots.
- Liquidity ratios assesses the capacity of the firm to repay short term liability. It measures the ability to fulfil short term commitments out of liquid assets.
- The important liquidity ratios are :
 - (i) Current Ratio : It measures the short term solvency of a business

Current Ratio = Current Assets Current Liabilities

(ii) Liquid Ratio : It measurs the ability of the firm to pay current liabilities immediately

Liquid Ratio = <u>Liquid Assets</u> Current Liabilities

Liquid assets = Current assets – (Inventory + Prepaid expenses)

- Activity or turnover ratios measures the effectiveness with which a concern uses resources at its disposal.
- The important activity ratios are
 - (i) Inventory turnover ratio : It measures the efficiency with which the Inventory is managed.

Inventory Turnover Ratio = Cost of Revenue from Operations

Average Inventory

(ii) Trade Receivable turnover ratio : It is calculated to indicate the efficiency of the company to collect its debts.

Trade Receivable Turnover Ratio =

Revenue from Operations Average Trade Receivables

(iii) Trade Payable turnover ratio : It indicates the efficiency with which suppliers are paid.

Trade Payable Turnover Ratio = <u>Net Credit Purchases</u> Average Trade Payables

TERMINAL EXERCISE

- 1. What are the Advantages and uses of ratio analysis? Explain in detail.
- 2. Explain the significance of trade receivable turnover ratio and liquid ratio.
- 3. Explain the meaning and significance of the following ratios.
 - (a) Current ratio
 - (b) Trade Payables turnover ratio
 - (c) Inventory turnover ratio
- 4. From the following compute current ratio and quick ratio :

	X
Fixed Assets	100000
Inventory	30000
Debtors	20,000
Cash	40,000
Prepaid expenses	10,000
Creditors	30,000
Reserves	10,000

5. Following figures have been extracted from the books of XY Ltd. as on 31st December 2013 is

	₹		₹
Equity share capital	100000	Cash in hand	20000
7% debentures	100000	Cash at Bank	20,000

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₹

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					Accounti	ng	Ratios - I
Ba	ank ove	erdraft	40,000	Bill receiv	vables		100000
Cr	editors	5	60000	Investmen	nt		10000
De	ebtors		50000	General r	eserve		30000
In	ventory	7	150000				
Co	ost of R ventory	evenue from oper turnover ratio.	rations durin	g the year 2	014 were₹4,70),00	0. Calculate
6. Gi	ven : C	Current ratio 5 : 2					
Li	quidity	ratio 3:2					
W	orking	capital₹60,000					
Ca (d	alcula) stock	te (a) current	liabilites (b) curren	t assets (c) l	Liq	uid assets
7. X De	YZ Ltd ecembe	l. supplies you fo er 2013.	llowing info	ormation re	egarding the ye	ar e	nding 31st,
Ca	ash sale	es				₹	80,000
Cr	edit sa	les				₹ 2	2,00,000
Re	eturn in	ward				₹	10,000
OĮ	pening	inventory				₹	25,000
Cl	osing iı	nventory				₹	30,000
Gı	ross pro	ofit ratio is 25%. (Calculate inv	ventory turr	over ratio.		
	AN	SWERS TO	INTEX	T QUES	TIONS		
32.1	I.	Cash at Bank, debtors, prepa	inventory, id expenses	short term , cash in ha	investment, Band	ills	receivable,
	II.	(i) current asse	ets (ii) 2 :	1 (iii)	l:1 (iv) c	urre	nt assets
	III.	(i) False	(ii) False				
32.2	(i) C	Cost of revenue f	rom operati	ons (ii) Clo	osing inventory		
	(iii)	2000			(iv) 3 times		
32.3	I.	(i) Delay in col	llection of d	ebt			
		(ii) Net credit re	evenue from	operations			
		(iii) Trade Paya	bles turnove	erratio			
		(iv) 2,00,000	(v)	50,000	(vi) 5 times	(י	vii) 25,000

Accounting Ratios - I					MODULE - 6	
	II.	II. (i) Current assets (ii) Working capital turnover ratio		Analysis of Financial Statements		
		(iii)2	(iv) Average working capita	ıl		
4. Current Ratio 3.33 : 1, Quick Ratio 2.337 : 1						
5.	3.13 times				Notes	
6.	(a) 40,00	0 (b) 1,00,000) (c) 60,000	(d) 40,000		
7.	7.36 times	S				