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Summary of Financial Ratios

1. Liquidity

Measures a company's capacity to pay its debts as they come due. There are two ratios for evaluation liquidity.

Current Ratio - Gauges how able a business is to pay current liabilities by using current assets only. Also called the **working capital ratio**. A general rule of thumb for the current ratio is 2 to 1 (or 2:1, or 2/1). However, an industry average may be a better standard than this rule of thumb. The actual quality and management of assets must also be considered.

The formula is:

$$\frac{\text{Total Current Assets}}{\text{Total Current Liabilities}}$$

Quick Ratio - Focuses on immediate liquidity (i.e., cash, accounts receivable, etc.) but specifically ignores inventory. Also called the **acid test ratio**, it indicates the extent to which you could pay current liabilities without relying on the sale of inventory. *Quick assets*, are highly liquid--those immediately convertible to cash. A rule of thumb states that, generally, your ratio should be 1 to 1 (or 1:1, or 1/1). The formula is:

$$\frac{\text{Cash + Accounts Receivable} \\ (+ \text{ any other quick assets})}{\text{Current Liabilities}}$$

2. **Safety**

Indicates a company's vulnerability to risk--that is, the degree of protection provided for the business' debt. **Three** ratios help you evaluate safety:

Debt to Worth - Also called **debt to net worth**. Quantifies the relationship between the capital invested by owners and investors and the funds provided by creditors.

The higher the ratio, the greater the risk to a current or future creditor. A lower ratio means your company is more financially stable and is probably in a better position to borrow now and in the future. However, an extremely low ratio may indicate that you are too conservative and are not letting the business realize its potential.

The formula is:

$$\frac{\text{Total Liabilities (or Debt)}}{\text{Net Worth (or Total Equity)}}$$

Times Interest Earned – Assesses the company's ability to meet interest

payments. It also evaluates the capacity to take on more debt. The higher the ratio, the greater the company's ability to make its interest payments or perhaps take on more debt.

The formula is:

Earnings Before Interest & Taxes

Interest Charges

Cash Flow to Current Maturity of Long-Term Debt - Indicates how well traditional cash flow (net profit plus depreciation) covers the company's debt principal payments due in the next 12 months. It also indicates if the company's cash flow can support additional debt.

The formula is:

$$\frac{\text{Net Profit} + \text{Non-Cash Expenses}^*}{\text{Current Portion of Long-Term Debt}}$$

*Such as depreciation, amortization, and depletion.

3. **Profitability**

Measures the company's ability to generate a return on its resources. Use the following four ratios to help you answer the question, "Is my company as profitable as it should be?" An increase in the ratios is viewed as a positive trend.

Gross Profit Margin - Indicates how well the company can generate a return at the gross profit level. It addresses three areas: inventory control, pricing, and production efficiency.

The formula is:

$$\frac{\text{Gross Profit}}{\text{Total Sales}}$$

Net Profit Margin - Shows how much net profit is derived from every dollar of total sales. It indicates how well the business has managed its operating expenses. It also can indicate whether the business is generating enough sales volume to cover minimum fixed costs and still leave an acceptable profit.

The formula is:

$$\frac{\text{Net Profit}}{\text{Total Sales}}$$

Return on Assets - Evaluates how effectively the company employs its assets to generate a return. It measures efficiency.

The formula is:

$$\frac{\text{Net Profit}}{\text{Total Assets}}$$

Return on Net Worth - Also called ***return on investment (ROI)***. Determines the rate of return on the invested capital. It is used to compare investment in the company against other investment opportunities, such as stocks, real estate, savings, etc.

There should be a direct relationship between ROI and risk (i.e., the greater the risk, the higher the return).

The formula is:

Net
Profit
Net
Worth

4. **Efficiency**

Evaluates how well the company manages its assets. Besides determining the value of the company's assets, you should also analyze how effectively the company employs its assets. You can use the following ratios:

Accounts Receivable Turnover - Shows the number of times accounts receivable are paid and reestablished during the accounting period. The higher the turnover, the faster the business is collecting its receivables and the more cash the company generally has on hand.

The formula is:

$$\frac{\text{Total Net Sales}}{\text{Average Accounts Receivable}}$$

Accounts Receivable Collection Period - Reveals how many days it takes to collect all accounts receivable. As with accounts receivable turnover (above), fewer days means the company is collecting more quickly on its accounts.

The formula is:

$$\frac{365 \text{ Days}}{\text{Accounts Receivable Turnover}}$$

Accounts Payable Turnover - Shows how many times in one accounting period the company turns over (repays) its accounts payable to creditors. A higher number indicates either that the business has decided to hold on to its money longer, or that it is having greater difficulty paying creditors.

The formula is:

$$\frac{\text{Cost of Goods Sold}}{\text{Average Accounts Payable}}$$

Payable

Payable Period - Shows how many days it takes to pay accounts payable. This ratio is similar to accounts payable turnover (above.) The business may be losing valuable creditor discounts by not paying promptly.

The formula is:

$$\frac{365 \text{ Days}}{\text{Accounts Payable Turnover}}$$

Inventory Turnover - Shows how many times in one accounting period the company turns over (sells) its inventory. This ratio is valuable for spotting understocking, overstocking, obsolescence, and the need for merchandising improvement. Faster turnovers are generally viewed as a positive trend; they increase cash flow and reduce warehousing and other related costs. Average inventory can be calculated by averaging the inventory figure from the monthly Balance Sheets. In a cyclical business,

this is especially important since there can be wide swings in asset levels during the year. For example, many retailers might have extra stock in October and November in preparation for the Thanksgiving and winter holiday sales.

The formula is:

$$\frac{\text{Cost of Goods Sold}}{\text{Average Inventory}}$$

Inventory Turnover in Days - Identifies the average length of time in days it takes the inventory to turn over. As with inventory turnover (above), fewer days mean that inventory is being sold more quickly.

The formula is:

$$\frac{365 \text{ Days}}{\text{Inventory Turnover}}$$

Sales to Net Worth - Indicates how many sales dollars are generated with each dollar of investment (net worth). This is a volume ratio.

The formula is:

$$\frac{\text{Total Sales}}{\text{Average Net Worth}}$$

Sales to Total Assets - Indicates how efficiently the company generates sales on each dollar of assets. A volume indicator, this ratio measures the ability of the company's assets to generate sales.

The formula is:

$$\frac{\text{Total Sales}}{\text{Average Total Assets}}$$

Debt Coverage Ratio - An indication of the company's ability to satisfy its debt obligations, and its capacity to take on additional debt without impairing its survival. The formula is:

Net Profit + Any Non-Cash Expenses

Principal on Debt

<u>Ratio</u>	<u>Formula</u>	<u>What it measures</u>	<u>What it tells you</u>
<u>Owners:</u>			
Return on Investment (ROI)	$\frac{\text{Net Income}}{\text{Average Owners' Equity}}$	Return on owners' capital. When compared with return on assets, it measures the extent to which financial leverage is being used for or against the owner.	How well is this company doing as an investment?
Return on Assets (ROA)	$\frac{\text{Net Income}}{\text{Average Total Assets}}$	How well assets have been employed by management.	How well has management employed company assets?
<u>Managers:</u>			
Net Profit Margin	$\frac{\text{Net Income}}{\text{Sales}}$	Operating efficiency. The ability to create sufficient profits from operating activities.	Does it pay to borrow? Are profits high enough, given the level of sales?
Asset Turnover	$\frac{\text{Sales}}{\text{Average Total Assets}}$	Relative efficiency in using total resources to produce product output.	margin
Return on Assets	$\frac{\text{Net Income}}{\text{Sales}} \times \frac{\text{Sales}}{\text{Total Assets}}$	Earning power on all assets; ROA ratio broken into its logical parts: turnover and	

How well are assets being used to generate sales revenue?

Average $\text{Average A/R} \times 365$
Collection Period $\frac{\text{Annual Credit Sales}}{\text{Average A/R}}$

How well has management

Liquidity of receivables in terms of average number of days receivables are outstanding.

employed company assets?

Are receivables coming in too slowly?

Inventory Turnover $\frac{\text{Cost of Goods Sold}}{\text{Average Inventory}}$
Expense

Average Inventory

Liquidity of inventory; the number of times it turns over per year.

Is too much cash tied up in inventories?

Average Age of $\text{Average A/P} \times 365$

Payables

Net
Purchases

Approximate length of time a firm takes to pay its bills for trade purchases.

How quickly does a prospective customer pay its bills?

Short-Term

Creditors	Current Assets –	Short-term debt-	Does this customer
Working	Current	payingability.	have sufficient
Capital	Liabilities		cash or other liquid
			assetsto cover its
			short-
			term
			obligations?

<u>Current Ratio</u>	Current Assets	Short-term debt-	Does this customer
	Current	payingability without	have sufficient
	Liabilities	regard tothe liquidity	cash or other liquid
		of current assets.	assetsto cover its
			short-
			term
			obligations?

Quick Ratio	<u>Cash+ Mktble Sec. +A/R</u>	Short-term debt-	Does this customer
	Current Liabilities	paying ability without	have sufficient
		having to rely on sale	cash or other liquid
		of inventory.	assetsto cover its
			short-
			term
			obligations?

<u>Long-Term</u>	Total Debt	Amount of assets	Is the
Creditors:	Total	provided by creditors	company' s
Debt-to-	Equity	foreach dollar of	debt load
EquityRatio		assets provided by	excessive?
		owner(s)	

<u>Times</u>	Earned	Net Income+(Interest	Expense
Interest		+Taxes)Interest	

Ability to pay fixed charges for	interest from operating profits.	Are earnings and cash flows sufficient to cover interest	payments and some principal repayments?
<u>Cash Flow</u> to Liabilities	Operating Cash Flow Total Liabilities	Total debt coverage. General debt-paying ability.	Are earnings and cash flows sufficient to cover interest payments and some principal repayments