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Thanks for signing up for the MyAccountingcourse.com newsletter. This is a quick financial ratio cheatsheet with short explanations, formulas, and analyzes of some of the most common financial ratios. Check out www.myaccountingcourse.com/financial-ratios/ for more ratios, examples, and explanations.
Liquidity Ratios

- Quick Ratio / Acid Test Ratio
- Current Ratio
- Working Capital Ratio
- Times Interest Earned

Find more Liquidity Ratios on the myaccountingcourse.com financial ratios page.
Quick Ratio

Explanation
-The quick ratio or acid test ratio is a liquidity ratio that measures the ability of a company to pay its current liabilities when they come due with only quick assets. Quick assets are current assets that can be converted to cash within 90 days or in the short-term. Cash, cash equivalents, short-term investments or marketable securities, and current accounts receivable are considered quick assets.

-The quick ratio is often called the acid test ratio in reference to the historical use of acid to test metals for gold by the early miners. If the metal passed the acid test, it was pure gold. If metal failed the acid test by corroding from the acid, it was a base metal and of no value.

The acid test of finance shows how well a company can quickly convert its assets into cash in order to pay off its current liabilities. It also shows the level of quick assets to current liabilities.

Analysis
-The acid test ratio measures the liquidity of a company by showing its ability to pay off its current liabilities with quick assets. If a firm has enough quick assets to cover its total current liabilities, the firm will be able to pay off its obligations without having to sell off any long-term or capital assets.

-Since most businesses use their long-term assets to generate revenues, selling off these capital assets will not only hurt the company it will also show investors that current operations aren’t making enough profits to pay off current liabilities.

-Higher quick ratios are more favorable for companies because it shows there are more quick assets than current liabilities. A company with a quick ratio of 1 indicates that quick assets equal current assets. This also shows that the company could pay off its current liabilities without selling any long-term assets. An acid ratio of 2 shows that the company has twice as many quick assets than current liabilities.

Formula

Quick Ratio = \( \frac{\text{Cash + Cash Equivalents + Short Term Investments + Current Receivables}}{\text{Current Liabilities}} \)

Check out more examples
www.myaccountingcourse.com/financial-ratios/quick-ratio
Current Ratio

Explanation
-The current ratio is a liquidity and efficiency ratio that measures a firm’s ability to pay off its short-term liabilities with its current assets. The current ratio is an important measure of liquidity because short-term liabilities are due within the next year.

This means that a company has a limited amount of time in order to raise the funds to pay for these liabilities. Current assets like cash, cash equivalents, and marketable securities can easily be converted into cash in the short term. This means that companies with larger amounts of current assets will more easily be able to pay off current liabilities when they become due without having to sell off long-term, revenue generating assets.

Analysis
-The current ratio helps investors and creditors understand the liquidity of a company and how easily that company will be able to pay off its current liabilities. This ratio expresses a firm’s current debt in terms of current assets. So a current ratio of 4 would mean that the company has 4 times more current assets than current liabilities.

A higher current ratio is always more favorable than a lower current ratio because it shows the company can more easily make current debt payments.

If a company has to sell of fixed assets to pay for its current liabilities, this usually means the company isn’t making enough from operations to support activities. In other words, the company is losing money. Sometimes this is the result of poor collections of accounts receivable.

The current ratio also sheds light on the overall debt burden of the company. If a company is weighted down with a current debt, its cash flow will suffer.

Formula

\[
\text{Current Ratio} = \frac{\text{Current Assets}}{\text{Current Liabilities}}
\]

Check out more examples
www.myaccountingcourse.com/financial-ratios/current-ratio
Working Capital Ratio

Explanation
-The working capital ratio, also called the current ratio, is a liquidity ratio that measures a firm’s ability to pay off its current liabilities with current assets. The working capital ratio is important to creditors because it shows the liquidity of the company.

Current liabilities are best paid with current assets like cash, cash equivalents, and marketable securities because these assets can be converted into cash much quicker than fixed assets.

The faster the assets can be converted into cash, the more likely the company will have the cash in time to pay its debts.

The reason this ratio is called the working capital ratio comes from the working capital calculation. When current assets exceed current liabilities, the firm has enough capital to run its day-to-day operations. In other words, it has even capital to work. The working capital ratio transforms the working capital calculation into a comparison between current assets and current liabilities.

Analysis
-Since the working capital ratio measures current assets as a percentage of current liabilities, it would only make sense that a higher ratio is more favorable. A WCR of 1 indicates the current assets equal current liabilities. A ratio of 1 is usually considered the middle ground. It’s not risky, but it is also not very safe. This means that the firm would have to sell all of its current assets in order to pay off its current liabilities.

A ratio less than 1 is considered risky by creditors and investors because it shows the company isn’t running efficiently and can’t cover its current debt properly. A ratio less than 1 is always a bad thing and is often referred to as negative working capital.

On the other hand, a ratio above 1 shows outsiders that the company can pay all of its current liabilities and still have current assets left over or positive working capital.

Formula

\[
\text{Working Capital Ratio} = \frac{\text{Current Assets}}{\text{Current Liabilities}}
\]
Times Interest Earned Ratio

Explanation
-The times interest earned ratio, sometimes called the interest coverage ratio, is a coverage ratio that measures the proportionate amount of income that can be used to cover interest expenses in the future.

In some respects the times interest ratio is considered a solvency ratio because it measures a firm’s ability to make interest and debt service payments.

Since these interest payments are usually made on a long-term basis, they are often treated as an ongoing, fixed expense. As with most fixed expenses, if the company can’t make the payments, it could go bankrupt and cease to exist. Thus, this ratio could be considered a solvency ratio.

Analysis
-The times interest ratio is stated in numbers as opposed to a percentage. The ratio indicates how many times a company could pay the interest with its before tax income, so obviously the larger ratios are considered more favorable than smaller ratios.

As you can see, creditors would favor a company with a much higher times interest ratio because it shows the company can afford to pay its interest payments when they come due. Higher ratios are less risky while lower ratios indicate credit risk.

In other words, a ratio of 4 means that a company makes enough income to pay for its total interest expense 4 times over. Said another way, this company’s income is 4 times higher than its interest expense for the year.

Check out more examples

www.myaccountingcourse.com/financial-ratios/times-interest-earned-ratio
Solvency Ratios

Debt to Equity Ratio
Equity Ratio
Debt Ratio

Find more Solvency Ratios
on the myaccountingcourse.com financial ratios page.
Debt to Equity Ratio

Explanation
-The debt to equity ratio is a financial, liquidity ratio that compares a company’s total debt to total equity. The debt to equity ratio shows the percentage of company financing that comes from creditors and investors. A higher debt to equity ratio indicates that more creditor financing (bank loans) is used than investor financing (shareholders).

- Each industry has different debt to equity ratio benchmarks, as some industries tend to use more debt financing than others. A debt ratio of .5 means that there are half as many liabilities than there is equity. In other words, the assets of the company are funded 2-to-1 by investors to creditors. This means that investors own 66.6 cents of every dollar of company assets while creditors only own 33.3 cents on the dollar.

A debt to equity ratio of 1 would mean that investors and creditors have an equal stake in the business assets.

Formula

Debt to Equity Ratio = \frac{Total \ Liabilities}{Total \ Equity}

Analysis
-A lower debt to equity ratio usually implies a more financially stable business. Companies with a higher debt to equity ratio are considered more risky to creditors and investors than companies with a lower ratio. Unlike equity financing, debt must be repaid to the lender. Since debt financing also requires debt servicing or regular interest payments, debt can be a far more expensive form of financing than equity financing. Companies leveraging large amounts of debt might not be able to make the payments.

Creditors view a higher debt to equity ratio as risky because it shows that the investors haven’t funded the operations as much as creditors have. In other words, investors don’t have as much skin in the game as the creditors do. This could mean that investors don’t want to fund the business operations because the company isn’t performing well. Lack of performance might also be the reason why the company is seeking out extra debt financing. Forming well. Lack of performance might also be the reason why the company is seeking out extra debt financing.

Check out more examples

www.myaccountingcourse.com/financial-ratios/debt-to-equity-ratio
Equity Ratio

Explanation
-The equity ratio is an investment leverage or solvency ratio that measures the amount of assets that are financed by owners’ investments by comparing the total equity in the company to the total assets.

The equity ratio highlights two important financial concepts of a solvent and sustainable business. The first component shows how much of the total company assets are owned outright by the investors. In other words, after all of the liabilities are paid off, the investors will end up with the remaining assets.

The second component inversely shows how leveraged the company is with debt. The equity ratio measures how much of a firm’s assets were financed by investors. In other words, this is the investors’ stake in the company. This is what they are on the hook for. The inverse of this calculation shows the amount of assets that were financed by debt. Companies with higher equity ratios show new investors and creditors that investors believe in the company and are willing to finance it with their investments.

Formula

\[
\text{Equity Ratio} = \frac{\text{Total Equity}}{\text{Total Assets}}
\]

Analysis
-In general, higher equity ratios are typically favorable for companies. This is usually the case for several reasons. Higher investment levels by shareholders shows potential shareholders that the company is worth investing in since so many investors are willing to finance the company. A higher ratio also shows potential creditors that the company is more sustainable and less risky to lend future loans.

Equity financing in general is much cheaper than debt financing because of the interest expenses related to debt financing. Companies with higher equity ratios should have less financing and debt service costs than companies with lower ratios.

As with all ratios, they are contingent on the industry. Exact ratio performance depends on industry standards and benchmarks.

Check out more examples
www.myaccountingcourse.com/financial-ratios/equity-ratio
Debt Ratio

Explanation
- Debt ratio is a solvency ratio that measures a firm’s total liabilities as a percentage of its total assets. In a sense, the debt ratio shows a company’s ability to pay off its liabilities with its assets. In other words, this shows how many assets the company must sell in order to pay off all of its liabilities.

This ratio measures the financial leverage of a company. Companies with higher levels of liabilities compared with assets are considered highly leveraged and more risky for lenders.

This helps investors and creditors analysis the overall debt burden on the company as well as the firm’s ability to pay off the debt in future, uncertain economic times.

Formula

Debt Ratio = \[ \frac{\text{Total Liabilities}}{\text{Total Assets}} \]

Analysis
- The debt ratio is shown in decimal format because it calculates total liabilities as a percentage of total assets. As with many solvency ratios, a lower ratio is more favorable than a higher ratio.

A lower debt ratio usually implies a more stable business with the potential of longevity because a company with lower ratio also has lower overall debt. Each industry has its own benchmarks for debt, but .5 is reasonable ratio.

A debt ratio of .5 is often considered to be less risky. This means that the company has twice as many assets as liabilities. Or said a different way, this company’s liabilities are only 50 percent of its total assets. Essentially, only its creditors own half of the company’s assets and the shareholders own the remainder of the assets.

A ratio of 1 means that total liabilities equals total assets. In other words, the company would have to sell off all of its assets in order to pay off its liabilities. Obviously, this is a highly leverage firm.

Check out more examples
www.myaccountingcourse.com/financial-ratios/debt-ratio
Efficiency Ratios

Accounts Receivable Turnover
Asset Turnover Ratio
Inventory Turnover Ratio
Days' Sales in Inventory

Find more Efficiency Ratios
on the myaccountingcourse.com financial ratios page.
Accounts Receivable Turnover

Explanation
- What is accounts receivable? It's an efficiency ratio or activity ratio that measures how many times a business can turn its accounts receivable into cash during a period. In other words, the accounts receivable turnover ratio measures how many times a business can collect its average accounts receivable during the year.

A turn refers to each time a company collects its average receivables. If a company had $20,000 of average receivables during the year and collected $40,000 of receivables during the year, the company would have turned its accounts receivable twice because it collected twice the amount of average receivables.

This ratio shows how efficient a company is at collecting its credit sales from customers. Some companies collect their receivables from customers in 90 days while other take up to 6 months to collect from customers.

Formula

\[
\text{Accounts Receivable Turnover Ratio} = \frac{\text{Net Credit Sales}}{\text{Average Accounts Receivable}}
\]

Analysis
- Since the receivables turnover ratio measures a business' ability to efficiently collect its receivables, it only makes sense that a higher ratio would be more favorable. Higher ratios mean that companies are collecting their receivables more frequently throughout the year. For instance, a ratio of 2 means that the company collected its average receivables twice during the year. In other words, this company is collecting money from customers every six months.

Higher efficiency is favorable from a cash flow standpoint as well. If a company can collect cash from customers sooner, it will be able to use that cash to pay bills and other obligations sooner.

Accounts receivable turnover also is an indication of the quality of credit sales and receivables. A company with a higher ratio shows that credit sales are more likely to be collected than a company with a lower ratio. Since accounts receivable are often posted as collateral for loans, quality of receivables is important.

Check out more examples
www.myaccountingcourse.com/financial-ratios/accounts-receivable-turnover-ratio
Asset Turnover Ratio

Explanation
-The asset turnover ratio is an efficiency ratio that measures a company’s ability to generate sales from its assets by comparing net sales with average total assets. In other words, this ratio shows how efficiently a company can use its assets to generate sales.

The total asset turnover ratio calculates net sales as a percentage of assets to show how many sales are generated from each dollar of company assets. For instance, a ratio of .5 means that each dollar of assets generates 50 cents of sales.

This ratio measures how efficiently a firm uses its assets to generate sales, so a higher ratio is always more favorable. Higher turnover ratios mean the company is using its assets more efficiently. Lower ratios mean that the company isn’t using its assets efficiently and most likely have management or production problems.

Analysis
-For instance, a ratio of 1 means that the net sales of a company equals the average total assets for the year. In other words, the company is generating 1 dollar of sales for every dollar invested in assets.

Like with most ratios, the asset turnover ratio is based on industry standards. Some industries use assets more efficiently than others. To get a true sense of how well a company’s assets are being used, it must be compared to other companies in its industry.

The total asset turnover ratio is a general efficiency ratio that measures how efficiently a company uses all of its assets. This gives investors and creditors an idea of how a company is managed and uses its assets to produce products and sales.

Sometimes investors also want to see how companies use more specific assets like fixed assets and current assets. The fixed asset turnover ratio and the working capital ratio are turnover ratios similar to the asset turnover ratio that are often used to calculate the efficiency of these asset classes.

Formula

\[
\text{Asset Turnover Ratio} = \frac{\text{Net Sales}}{\text{Average Total Assets}}
\]

Check out more examples
www.myaccountingcourse.com/financial-ratios/asset-turnover-ratio
Inventory Turnover Ratio

Explanation
-The inventory turnover ratio is an efficiency ratio that shows how effectively inventory is managed by comparing cost of goods sold with average inventory for a period. This measures how many times average inventory is “turned” or sold during a period. In other words, it measures how many times a company sold its total average inventory dollar amount during the year. A company with $1,000 of average inventory and sales of $10,000 effectively sold its 10 times over.

This ratio is important because total turnover depends on two main components of performance. The first component is stock purchasing. If larger amounts of inventory are purchased during the year, the company will have to sell greater amounts of inventory to improve its turnover. If the company can’t sell these greater amounts of inventory, it will incur storage costs and other holding costs.

The second component is sales. Sales have to match inventory purchases otherwise the inventory will not turn effectively.

Analysis
-Inventory turnover is a measure of how efficiently a company can control its merchandise, so it is important to have a high turn. This shows the company does not overspend by buying too much inventory and wastes resources by storing non-salable inventory. It also shows that the company can effectively sell the inventory it buys.

This measurement also shows investors how liquid a company’s inventory is. Think about it. Inventory is one of the biggest assets a retailer reports on its balance sheet.

If this inventory can’t be sold, it is worthless to the company. This measurement shows how easily a company can turn its inventory into cash.

Creditors are particularly interested in this because inventory is often put up as collateral for loans. Banks want to know that this inventory will be easy to sell.

Inventory turns vary with industry. For instance, the apparel industry will have higher turns than the exotic car industry.

Formula

\[
\text{Inventory Turnover Ratio} = \frac{\text{Cost of Goods Sold}}{\text{Average Inventory}}
\]

Check out more examples

www.myaccountingcourse.com/financial-ratios/inventory-turnover-ratio
Days’ Sales in Inventory

Explanation

-The days sales in inventory calculation, also called days inventory outstanding or simply days in inventory, measures the number of days it will take a company to sell all of its inventory. In other words, the days sales in inventory ratio shows how many days a company’s current stock of inventory will last.

This is an important to creditors and investors for three main reasons. It measures value, liquidity, and cash flows.

Both investors and creditors want to know how valuable a company’s inventory is. Older, more obsolete inventory is always worth less than current, fresh inventory. The days sales in inventory shows how fast the company is moving its inventory. In other words, it shows how fresh the inventory is.

This calculation also shows the liquidity of inventory. Shorter days inventory outstanding means the company can convert its inventory into cash sooner. In other words, the inventory is extremely liquid.

Formula

Days' Sales in Inventory = \( \frac{\text{Ending Inventory}}{\text{Cost of Goods Sold}} \times 365 \)

Analysis

-The days sales in inventory is a key component in a company’s inventory management. Inventory is an expensive for a company to keep, maintain, and store. Companies also have to be worried about protecting inventory from theft and obsolescence.

Management strives to only buy enough inventories to sell within the next 90 days. If inventory sits longer than that, it can start costing the company extra money.

It only makes sense that lower days inventory outstanding is more favorable than higher ratios.

Management wants to make sure its inventory moves as fast as possible to minimize these costs and to increase cash flows. Remember the longer the inventory sits on the shelves, the longer the company’s cash can’t be used for other operations.

Check out more examples
www.myaccountingcourse.com/financial-ratios/days-sales-in-inventory
Profitability Ratios

Gross Margin Ratio
Profit Margin Ratio
Return on Assets
Return on Capital Employed
Return on Equity

Find more Liquidity Ratios on the myaccountingcourse.com financial ratios page.
Gross Margin Ratio

Explanation
-Gross margin ratio is a profitability ratio that compares the gross margin of a business to the net sales. This ratio measures how profitable a company sells its inventory or merchandise. In other words, the gross profit ratio is essentially the percentage markup on merchandise from its cost. This is the pure profit from the sale of inventory that can go to paying operating expenses.

Gross margin ratio is often confused with the profit margin ratio, but the two ratios are completely different. Gross margin ratio only considers the cost of goods sold in its calculation because it measures the profitability of selling inventory. Profit margin ratio on the other hand considers other expenses.

Formula

Gross Margin Ratio = \( \frac{\text{Gross Margin}}{\text{Net Sales}} \)

Analysis
-Gross margin ratio is a profitability ratio that measures how profitable a company can sell its inventory. It only makes sense that higher ratios are more favorable. Higher ratios mean the company is selling their inventory at a higher profit percentage.

High ratios can typically be achieved by two ways. One way is to buy inventory very cheap. If retailers can get a big purchase discount when they buy their inventory from the manufacturer or wholesaler, their gross margin will be higher because their costs are down.

The second way retailers can achieve a high ratio is by marking their goods up higher. This obviously has to be done competitively otherwise goods will be too expensive and customers will shop elsewhere.

A company with a high gross margin ratios mean that the company will have more money to pay operating expenses like salaries, utilities, and rent. Since this ratio measures the profits from selling inventory, it also measures the percentage of sales that can be used to help fund other parts of the business. Here is another great explanation.

Check out more examples
www.myaccountingcourse.com/financial-ratios/gross-margin-ratio
Profit Margin Ratio

Explanation
-The profit margin ratio, also called the return on sales ratio or gross profit ratio, is a profitability ratio that measures the amount of net income earned with each dollar of sales generated by comparing the net income and net sales of a company. In other words, the profit margin ratio shows what percentage of sales are left over after all expenses are paid by the business.

Creditors and investors use this ratio to measure how effectively a company can convert sales into net income.

Investors want to make sure profits are high enough to distribute dividends while creditors want to make sure the company has enough profits to pay back its loans. In other words, outside users want to know that the company is running efficiently. An extremely low profit margin would indicate the expenses are too high and the management needs to budget and cut expenses.

The return on sales ratio is often used by internal management to set performance goals for the future.

Analysis
-The profit margin ratio directly measures what percentage of sales is made up of net income. In other words, it measures how much profits are produced at a certain level of sales.

This ratio also indirectly measures how well a company manages its expenses relative to its net sales. That is why companies strive to achieve higher ratios. They can do this by either generating more revenues why keeping expenses constant or keep revenues constant and lower expenses.

Since most of the time generating additional revenues is much more difficult than cutting expenses, managers generally tend to reduce spending budgets to improve their profit ratio.

Like most profitability ratios, this ratio is best used to compare like sized companies in the same industry. This ratio is also effective for measuring past performance of a company.

Formula

\[
\text{Profit Margin Ratio} = \frac{\text{Net Income}}{\text{Net Sales}}
\]

Check out more examples

www.myaccountingcourse.com/financial-ratios/profit-margin-ratio
Return on Assets Ratio

Explanation
-The return on assets ratio, often called the return on total assets, is a profitability ratio that measures the net income produced by total assets during a period by comparing net income to the average total assets. In other words, the return on assets ratio or ROA measures how efficiently a company can manage its assets to produce profits during a period.

Since company assets' sole purpose is to generate revenues and produce profits, this ratio helps both management and investors see how well the company can convert its investments in assets into profits. You can look at ROA as a return on investment for the company since capital assets are often the biggest investment for most companies. In this case, the company invests money into capital assets and the return is measured in profits.

Formula

\[
\text{Return on Assets Ratio} = \frac{\text{Net Income}}{\text{Average Total Assets}}
\]

Analysis
-The return on assets ratio measures how effectively a company can turn earn a return on its investment in assets. In other words, ROA shows how efficiently a company can convert the money used to purchase assets into net income or profits.

Since all assets are either funded by equity or debt, some investors try to disregard the costs of acquiring the assets in the return calculation by adding back interest expense in the formula.

It only makes sense that a higher ratio is more favorable to investors because it shows that the company is more effectively managing its assets to produce greater amounts of net income. A positive ROA ratio usually indicates an upward profit trend as well. ROA is most useful for comparing companies in the same industry as different industries use assets differently. For instance, construction companies use large, expensive equipment while software companies use computers and servers.

Check out more examples
www.myaccountingcourse.com/financial-ratios/return-on-assets
Return on Capital Employed

Explanation
- Return on capital employed or ROCE is a profitability ratio that measures how efficiently a company can generate profits from its capital employed by comparing net operating profit to capital employed. In other words, return on capital employed shows investors how many dollars in profits each dollar of capital employed generates.

ROCE is a long-term profitability ratio because it shows how effectively assets are performing while taking into consideration long-term financing. This is why ROCE is a more useful ratio than return on equity to evaluate the longevity of a company.

This ratio is based on two important calculations: operating profit and capital employed. Net operating profit is often called EBIT or earnings before interest and taxes. EBIT is often reported on the income statement because it shows the company profits generated from operations. EBIT can be calculated by adding interest and taxes back into net income if need be.

Formula

\[
\text{Return on Capital Employed} = \frac{\text{Net Operating Profit}}{\text{Employed Capital}}
\]

Analysis
- The return on capital employed ratio shows how much profit each dollar of employed capital generates. Obviously, a higher ratio would be more favorable because it means that more dollars of profits are generated by each dollar of capital employed.

For instance, a return of .2 indicates that for every dollar invested in capital employed, the company made 20 cents of profits.

Investors are interested in the ratio to see how efficiently a company uses its capital employed as well as its long-term financing strategies. Companies’ returns should always be high than the rate at which they are borrowing to fund the assets. If companies borrow at 10 percent and can only achieve a return of 5 percent, they are losing money.

Just like the return on assets ratio, a company’s amount of assets can either hinder or help them achieve a high return.

Check out more examples

www.myaccountingcourse.com/financial-ratios/return-on-capital-employed
Return on Equity Ratio

Explanation
-The return on equity ratio or ROE is a profitability ratio that measures the ability of a firm to generate profits from its shareholders investments in the company. In other words, the return on equity ratio shows how much profit each dollar of common stockholders' equity generates.

So a return on 1 means that every dollar of common stockholders’ equity generates 1 dollar of net income.

This is an important measurement for potential investors because they want to see how efficiently a company will use their money to generate net income.

ROE is also an indicator of how effective management is at using equity financing to fund operations and grow the company.

Analysis
-Return on equity measures how efficiently a firm can use the money from shareholders to generate profits and grow the company. Unlike other return on investment ratios, ROE is a profitability ratio from the investor’s point of view—not the company. In other words, this ratio calculates how much money is made based on the investors’ investment in the company, not the company’s investment in assets or something else.

That being said, investors want to see a high return on equity ratio because this indicates that the company is using its investors’ funds effectively. Higher ratios are almost always better than lower ratios, but have to be compared to other companies’ ratios in the industry. Since every industry has different levels of investors and income, ROE can’t be used to compare companies outside of their industries very effectively.

Formula

\[
\text{Return on Equity Ratio} = \frac{\text{Net Income}}{\text{Shareholder's Equity}}
\]

Check out more examples
www.myaccountingcourse.com/financial-ratios/return-on-equity
Market Prospect Ratios

Earnings Per Share
Price Earnings P/E Ratio
Dividend Payout Ratio
Dividend Yield

Find more Liquidity Ratios on the myaccountingcourse.com financial ratios page.
Earnings Per Share

Explanation
- Earning per share, also called net income per share, is a market prospect ratio that measures the amount of net income earned per share of stock outstanding. In other words, this is the amount of money each share of stock would receive if all of the profits were distributed to the outstanding shares at the end of the year.

Earnings per share is also a calculation that shows how profitable a company is on a shareholder basis. So a larger company’s profits per share can be compared to smaller company’s profits per share. Obviously, this calculation is heavily influenced on how many shares are outstanding. Thus, a larger company will have to split its earning amongst many more shares of stock compared to a smaller company.

Formula

\[
\text{Earnings Per Share} = \frac{\text{Net Income} - \text{Preferred Dividends}}{\text{Weighted Average Common Shares Outstanding}}
\]

Analysis
- Earning per share is the same as any profitability or market prospect ratio. Higher earnings per share is always better than a lower ratio because this means the company is more profitable and the company has more profits to distribute to its shareholders.

Although many investors don’t pay much attention to the EPS, a higher earnings per share ratio often makes the stock price of a company rise. Since so many things can manipulate this ratio, investors tend to look at it but don’t let it influence their decisions drastically.

Check out more examples
www.myaccountingcourse.com/financial-ratios/earnings-per-share
Price Earnings P/E Ratio

Explanation
-The price earnings ratio, often called the P/E ratio or price to earnings ratio, is a market prospect ratio that calculates the market value of a stock relative to its earnings by comparing the market price per share by the earnings per share. In other words, the price earnings ratio shows what the market is willing to pay for a stock based on its current earnings.

Investors often use this ratio to evaluate what a stock’s fair market value should be by predicting future earnings per share.

Companies with higher future earnings are usually expected to issue higher dividends or have appreciating stock in the future.

Obviously, fair market value of a stock is based on more than just predicted future earnings. Investor speculation and demand also help increase a share’s price over time.

Formula

\[
\text{Price Earnings Ratio} = \frac{\text{Market Value Price per Share}}{\text{Earnings per Share}}
\]

Analysis
-The price to earnings ratio indicates the expected price of a share based on its earnings. As a company’s earnings per share being to rise, so does their market value per share. A company with a high P/E ratio usually indicated positive future performance and investors are willing to pay more for this company’s shares.

A company with a lower ratio, on the other hand, is usually an indication of poor current and future performance. This could prove to be a poor investment.

In general a higher ratio means that investors anticipate higher performance and growth in the future. It also means that companies with losses have poor PE ratios.

An important thing to remember is that this ratio is only useful in comparing like companies in the same industry. Since this ratio is based on the earnings per share calculation, management can easily manipulate it with specific accounting techniques.

Check out more examples
www.myaccountingcourse.com/financial-ratios/price-earnings-ratio
Dividend Payout Ratio

Explanation
-The dividend payout ratio measures the percentage of net income that is distributed to shareholders in the form of dividends during the year. In other words, this ratio shows the portion of profits the company decides to keep to fund operations and the portion of profits that is given to its shareholders.

Investors are particularly interested in the dividend payout ratio because they want to know if companies are paying out a reasonable portion of net income to investors.

For instance, most start up companies and tech companies rarely give dividends at all. In fact, Apple, a company formed in the 1970s, just gave its first dividend to shareholders in 2012.

Conversely, some companies want to spur investors’ interest so much that they are willing to pay out unreasonably high dividend percentages. Investors can see that these dividend rates can’t be sustained very long because the company will eventually need money for its operations.

Analysis
-Since investors want to see a steady stream of sustainable dividends from a company, the dividend payout ratio analysis is important. A consistent trend in this ratio is usually more important than a high or low ratio.

Since it is for companies to declare dividends and increase their ratio for one year, a single high ratio does not mean that much. Investors are mainly concerned with sustainable trends.

For instance, investors can assume that a company that has a payout ratio of 20 percent for the last ten years will continue giving 20 percent of its profit to the shareholders.

Conversely, a company that has a downward trend of payouts is alarming to investors. For example, if a company’s ratio has fallen a percentage each year for the last five years might indicate that the company can no longer afford to pay such high dividends. This could be an indication of poor operating performance.

Formula

\[
\text{Dividend Payout Ratio} = \frac{\text{Total Dividends}}{\text{Net income}}
\]

Check out more examples
www.myaccountingcourse.com/financial-ratios/dividend-payout-ratio
Dividend Yield

Explanation
-The dividend yield is a financial ratio that measures the amount of cash dividends distributed to common shareholders relative to the market value per share. The dividend yield is used by investors to show how their investment in stock is generating either cash flows in the form of dividends or increases in asset value by stock appreciation.

Investors invest their money in stocks to earn a return either by dividends or stock appreciation. Some companies choose to pay dividends on a regular basis to spur investors’ interest. These shares are often called income stocks. Other companies choose not to issue dividends and instead reinvest this money in the business. These shares are often called growth stocks.

Investors can use the dividend yield formula to help analyze their return on investment in stocks.

Formula

\[
\text{Dividend Yield} = \frac{\text{Cash Dividends per Share}}{\text{Market Value per Share}}
\]

Analysis
-Investors use the dividend yield formula to compute the cash flow they are getting from their investment in stocks. In other words, investors want to know how much dividends they are getting for every dollar that the stock is worth.

A company with a high dividend yield pays its investors a large dividend compared to the fair market value of the stock. This means the investors are getting highly compensated for their investments compared with lower dividend yielding stocks.

A high or low dividend yield is relative to the industry of the company. As I mentioned above, tech companies rarely give dividends at all. So even a small dividend might produce a high dividend yield ratio for the tech industry. Generally, investors want to see a yield as high as possible.

Check out more examples

www.myaccountingcourse.com/financial-ratios/dividend-yield
Coverage Ratios

Fixed Charge Coverage Ratio
Debt Service Coverage Ratio

Find more Coverage Ratios
on the myaccountingcourse.com financial ratios page.
Fixed Charge Coverage Ratio

Explanation
The fixed charge coverage ratio is a financial ratio that measures a firm’s ability to pay all of its fixed charges or expenses with its income before interest and income taxes. The fixed charge coverage ratio is basically an expanded version of the times interest earned ratio or the times interest coverage ratio.

The fixed charge coverage ratio is very adaptable for use with almost any fixed cost since fixed costs like lease payments, insurance payments, and preferred dividend payments can be built into the calculation.

Analysis
The fixed charge coverage ratio shows investors and creditors a firm’s ability to make its fixed payments. Like the times interest ratio, this ratio is stated in numbers rather than percentages.

The ratio measures how many times a firm can pay its fixed costs with its income before interest and taxes. In other words, it shows how many times greater the firm’s income is compared with its fixed costs.

In a way, this ratio can be viewed as a solvency ratio because it shows how easily a company can pay its bills when they become due. Obviously, if a company can’t pay its lease or rent payments, it will not be in business for much longer.

Higher fixed cost ratios indicate a healthier and less risky business to invest in or loan to. Lower ratios show creditors and investors that the company can barely meet its monthly bills.

Formula

\[
\text{Fixed Charge Coverage Ratio} = \frac{\text{EBIT + Fixed Charges Before Taxes}}{\text{Fixed Charges Before Taxes + Interest}}
\]

Check out more examples
www.myaccountingcourse.com/financial-ratios/fixed-charge-coverage-ratio
Debt Service Coverage Ratio

Explanation
-The debt service coverage ratio is a financial ratio that measures a company’s ability to service its current debts by comparing its net operating income with its total debt service obligations. In other words, this ratio compares a company’s available cash with its current interest, principle, and sinking fund obligations.

The debt service coverage ratio is important to both creditors and investors, but creditors most often analyze it.

Since this ratio measures a firm’s ability to make its current debt obligations, current and future creditors are particularly interested in it.

Creditors not only want to know the cash position and cash flow of a company, they also want to know how much debt it currently owes and the available cash to pay the current and future debt.

Formula

Debt Service Coverage Ratio = \[
\frac{\text{Operating Income}}{\text{Total Debt Service Costs}}
\]

Analysis
-The debt service coverage ratio measures a firm’s ability to maintain its current debt levels. This is why a higher ratio is always more favorable than a lower ratio. A higher ratio indicates that there is more income available to pay for debt servicing.

For example, if a company had a ratio of 1, that would mean that the company’s net operating profits equals its debt service obligations. In other words, the company generates just enough revenues to pay for its debt servicing.

A ratio of less than one means that the company doesn’t generate enough operating profits to pay its debt service and must use some of its savings.

Generally, companies with higher service ratios tend to have more cash and are better able to pay their debt obligations on time.

Check out more examples
www.myaccountingcourse.com/financial-ratios/debt-service-coverage-ratio
Although this isn’t a comprehensive list of every financial ratio that could appear on the CPA exam, it is a list of the most common ones. The two sections that tend to have ratios pop up in questions are FAR and BEC. The FAR ratios are typically more financial statement based and the BEC ratios are more cost accounting and business management based. If you learn these ratios, you should do fine on the exam.

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Find more about the CPA Exam on www.myaccountingcourse.com/cpa/
CMA Exam Ratios to Know

EBIT - Earnings before interest and taxes
EBITDA - Earnings before interest, taxes, depreciation and amortization
EBT - Earnings before taxes
EPS - Earnings per share
ROA - Return on assets
ROE - Return on equity
ROI - Return on investment
Current Ratio
Working Capital
Quick Ratio
Cash Ratio
Degree of financial leverage
Degree of operating leverage
Debt to equity ratio
Debt to total assets ratio
Fixed charge coverage
Interest coverage
Cash flow to fixed charges
Accounts receivable turnover
Inventory turnover
Accounts payable turnover
Days sales in receivables
Days sales in inventory
Days purchases in payables
Operating cycle
Cash cycle
Total asset turnover
Fixed asset turnover
Gross profit margin percentage
Operating profit margin percentage
Net profit margin percentage
Market-to-book ratio
Price earnings ratio
Book value per share
Diluted EPS
Earnings yield
Dividend payout ratio
Shareholder return
Breakeven point in units and dollars
Margin of safety

Find more Financial Ratios
on the myaccountingcourse.com financial ratios page.