HANDOUT ANALYSIS FINANCIAL RATIO'S

COURSE: FINANCIAL STATEMENT ANALYSIS

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FINANCIAL STATEMENT RATIOS

	LIQUIDITY			
Ratio	Definition	Formula	Analysis and Information	
Current Ratio	A liquidity ratio that measures a company's ability to pay short-term and long-term obligations. To gauge this ability, the current ratio considers the current total assets of a company (both liquid and illiquid) relative to that company's current total liabilities.	Current Assets Current Liabilities	The current ratio is mainly used to give an idea of the company's ability to pay back its liabilities (debt and accounts payable) with its assets (cash, marketable securities, inventory, and accounts receivable). The higher the current ratio, the more capable the company is of paying its obligations, as it has a larger proportion of asset value relative to the value of its liabilities. A ratio under 1 indicates that a company's liabilities are greater than its assets and suggests that the company in question would be unable to pay off its obligations if they came due at that point. While a current ratio below 1 shows that the company is not in good financial health, it does not necessarily mean that it will go bankrupt.	
Acid Test Ratio	The acid-test ratio is a strong indicator of whether a firm has sufficient short-term assets to cover its immediate liabilities. Commonly known as the quick ratio, this metric is more robust than the current ratio, also known as the working capital ratio, since it ignores illiquid assets such as inventory.	(Cash and cash equivalents + Marketable Securities + Account Receivables) Current Liabilities	Companies with an acid-test ratio of less than 1 do not have the liquid assets to pay their current liabilities and should be treated with caution. If the acid-test ratio is much lower than the current ratio, it means that current assets are highly dependent on inventory. For most industries, the acid-test ratio should exceed 1. Then again, a very high ratio is not always an unalloyed good. It could indicate that cash has accumulated and is idle, rather than being reinvested, returned to shareholders or otherwise put to productive use. Some tech companies generate massive cash flows and accordingly have acid-test ratios as high as 7 or 8. While this is certainly better than the alternative, these companies have drawn criticism from activist investors who would prefer that shareholders receive a portion of the profits.	
Collecti on Period	The approximate amount of time that it takes for a business to receive payments owed in terms of accounts receivable. The average collection period is calculated by dividing the average balance of accounts receivable by total net credit sales for the	Average accounts receivable Sales/360	The average collection period represents the average number of days between the date a credit sale is made and the date payment is received from the credit sale. The average balance of accounts receivable is calculated by adding the beginning balance in accounts receivable and ending balance in accounts receivable and dividing the total by 2. When calculating the average	

	period and multiplying the quotient by the number		collection period for an entire year, 360 may be used as the
	of days in the period.		number of days in one year for simplicity.
			In general, a lower average collection period is more favorable
			than a higher average collection period. A low average
			collection period indicates that the organization is collecting
			payment faster. However, this may be an indication that its
			credit terms are too strict, and customers may seek suppliers or
			service providers with more lenient payment terms.
			A company should compare the average collection period to the
			credit terms extended to customers. For example, an average
			collection period of 25 days isn't as concerning if invoices are
			issued with a net 30 due date. However, an ongoing evaluation
			of the outstanding collection period directly affects the
			organization's cash flows.
Day to	The days sales of inventory value, or DSI, is a	Average Inventory	Days sales of inventory, or days inventory, is one part of the
Sell	financial measure of a company's performance that	Cost of Sales / 360	cash conversion cycle, which represents the process of turning
Invento	gives investors an idea of how long it takes a		raw materials into cash. The days sales of inventory is the first
ry	company to turn its inventory (including goods		stage in that process. The other two stages are days sales
	that are a work in progress, if applicable) into		outstanding and days payable outstanding. The first measures
	sales. Generally, a lower (shorter) DSI is preferred,		how long it takes a company to receive payment on accounts
	but it is important to note that the average DSI		receivable, while the second measures how long it takes a
	varies from one industry to another.		company to pay off its accounts payable.
			DSI is one measure of inventory effectiveness. By calculating
			the number of days that a company holds onto inventory before
			selling, the efficiency ratio measures the average length of time
			that a company's cash is tied up in inventory. The calculation
			gives further perspective to the overall inventory ratio by
			putting the figure into a daily context. The formula for DSI,
			equivalent to the average days to sell the inventory, is calculated
			as follows: (Inventory / Cost of Sales) * 360
			This metric taken on its own, however, lacks context. DSI tends
			to vary greatly between industries, depending on product type,
			business model, etc. Therefore, it is important to compare the
			value to that of other similar companies. For example,
			businesses that sell perishable or fast-moving products such as
			food items will have a lower DSI than those that sell non-
			perishable or slow-moving products such as cars or furniture.

	CAPI	DLVENCY	
Ratio	Definition	Formula	Analysis and Information
Total	Debt/Equity Ratio is a debt ratio used to measure	Total Liabilities	Given that the debt/equity ratio measures a company's debt
Debt to	a company's financial leverage, calculated by	Shareholder's Equity	relative to the total value of its stock, it is most often used to
Equity	dividing a company's total liabilities by its		gauge the extent to which a company is taking on debts as a
	stockholders' equity. The D/E ratio indicates how		means of leveraging (attempting to increase its value by using
	much debt a company is using to finance its assets		borrowed money to fund various projects). A high debt/equity
	relative to the amount of value represented in		ratio generally means that a company has been aggressive in
	shareholders' equity		financing its growth with debt. Aggressive leveraging practices
			are often associated with high levels of risk. This may result in
			volatile earnings as a result of the additional interest expense.
			The personal debt/equity ratio is often used in financing, as
			when an individual or corporation is applying for a loan. This
			form of D/E essentially measures the dollar amount of debt an
			individual or corporation has for each dollar of equity they have.
			D/E is very important to a lender when considering a candidate
			for a loan, as it can greatly contribute to the lender's confidence
			(or lack thereof) in the candidate's financial stability. A
			candidate with a high personal debt/equity ratio has a high
			amount of debt relative to their available equity, and will not
			likely instill much confidence in the lender in the candidate's
			ability to repay the loan. On the other hand, a candidate with a
			low personal debt/equity ratio has relatively low debt, and thus
			poses much less risk to the lender should the lender agree to
			provide the loan, as the candidate would appear to have a
			reasonable ability to repay the loan.
			Like with most ratios, when using the debt/equity ratio it is very
			important to consider the industry in which the company
			operates. Because different industries rely on different amounts
			of capital to operate and use that capital in different ways, a
			relatively high D/E ratio may be common in one industry while
			a relatively low D/E may be common in another. For example, capital-intensive industries such as auto
			1 ' 1
			manufacturing tend to have a debt/equity ratio above 2, while
			companies like personal computer manufacturers usually are
			not particularly capital intensive and may often have a
			debt/equity ratio of under 0.5. As such, D/E ratios should only

			be used to compare companies when those companies operate within the same industry.
Long-	The long-term debt to capitalization ratio is a ratio	Long Term Liabilities	The choice between using long-term debt and other forms of
term	showing the financial leverage of a firm.	Shareholder's Equity	capital, namely preferred and common stock or categorically
Debt to	A variation of the traditional debt-to-equity ratio,		called equity, is a balancing act to build a financing capital
Equity	this value computes the proportion of a company's		structure with lower cost and less risk. Long-term debt can be
	long-term debt compared to its available capital.		advantageous if a company anticipates strong growth and ample
	By using this ratio, investors can identify the		profitability that can help ensure on-time debt repayments.
	amount of leverage utilized by a specific company		Lenders collect only their due interest and do not participate in
	and compare it to others to help analyze the		profit sharing among equity holders, making debt financing
	company's risk exposure as generally, companies		sometimes a preferred funding source. On the other hand, long-
	that finance a greater portion of their capital via		term debt may be risky when a company already struggles with
	debt are considered riskier than those with lower		its business, and the financial strain imposed by the debt burden
	leverage ratios.		may well lead to insolvency.
Times	Times interest earned (TIE) is a metric used to	Income Before Income Taxes	Failing to meet these obligations could force a company into
Interest	measure a company's ability to meet its debt	and Interest Expense	bankruptcy. TIE is also referred to as the interest coverage ratio.
Earn	obligations. The formula is calculated by taking a	Interest Expense	Generating cash flow to make principal and interest payments
	company's earnings before interest and taxes		and avoiding bankruptcy depends on a company's ability to
	(EBIT) and dividing it by the total interest payable		produce earnings. A company's capitalization refers to the
	on bonds and other contractual debt. TIE indicates		amount of money it has raised by issuing stock or debt, and
	how many times a company can cover its interest		choices about capitalization impact the TIE ratio. Businesses
	charges on a pretax earnings basis.		consider the cost of capital for stock and debt, and they use that
			cost to make decisions about capitalization.
			Companies that generate consistent annual earnings are more
			likely to carry more debt as a percentage of total capitalization.
			If a lender sees history of generating consistent earnings, the
			firm is in a better position to make principal and interest
			payments on time. Utility companies, for example, provide a
			product that consumers use every month, and these firms
			generate consistent earnings. As a result, some utility
			companies may raise 60% or more of their capital from issuing
			debt.
			Startup firms and other businesses that have inconsistent
			earnings raise most or all of company capital using equity – that
			is, stock. Once a company can establish a track record of
			producing reliable earnings, it may raise capital through debt
			offerings and shift away from issuing common stock.

	RETURN ON INVESTMENT			
Return	Return on assets (ROA) is an indicator of how	Net Income + Interest	ROA tells you what earnings were generated from invested	
on	profitable a company is relative to its total assets.	Expense \times (1 – tax rate)	capital (assets). ROA for public companies can vary	
Assets	ROA gives an idea as to how efficient	Average Total Assets	substantially and will be highly dependent on the industry. This	
	management is at using its assets to generate		is why when using ROA as a comparative measure, it is best to	
	earnings. Calculated by dividing a company's		compare it against a company's previous ROA numbers or the	
	annual earnings by its total assets, ROA is		ROA of a similar company.	
	displayed as a percentage. Sometimes this is		The assets of the company are comprised of both debt and	
	referred to as "return on investment".		equity. Both of these types of financing are used to fund the	
			operations of the company. The ROA figure gives investors an	
			idea of how effectively the company is converting the money it	
			has to invest into net income. The higher the ROA number, the	
			better, because the company is earning more money on less	
			investment. For example, if one company has a net income of	
			\$1 million and total assets of \$5 million, its ROA is 20%;	
			however, if another company earns the same amount but has	
			total assets of \$10 million, it has an ROA of 10%. Based on this	
			example, the first company is better at converting its investment	
			into profit. When you really think about it, management's most	
			important job is to make wise choices in allocating its resources.	
			Anybody can make a profit by throwing a ton of money at a	
			problem, but very few managers excel at making large profits	
			with little investment.	
			Things to Remember	
			•The ROA is often referred to as ROI	
			•We add the interest expense to ignore the costs associated with	
Dotum	Potum on aguity (POE) is the amount of not	Not Income	funding those assets. The ROE is useful for comparing the profitability of a company	
Return	Return on equity (ROE) is the amount of net income returned as a percentage of shareholders	Net Income Average Shareholder's	to that of other firms in the same industry.	
on Comm	equity. Return on equity measures a corporation's	Equity	There are several variations on the formula that investors may	
on	profitability by revealing how much profit a	or	· 1	
Equity	company generates with the money shareholders	Net Income – Dividend	use: 1. Investors wishing to see the return on common equity may	
Equity	have invested.	Preferred Stock	modify the formula above by subtracting preferred dividends	
	Net income is for the full fiscal year (before	[(Shareholder's Equity Y1 –	from net income and subtracting preferred equity from	
	dividends paid to common stock holders but after	Preferred Stock Y1) +	shareholders' equity, giving the following: return on common	
	dividends to preferred stock.) Shareholder's equity	(Shareholder's Equity Yn –	equity (ROCE) = net income - preferred dividends / common	
	does not include preferred shares.	Preferred Stock Yn)] / n	equity.	
L	does not morade professed shares.	Treferred Stock Trijj / II	equity.	

	Also known as "return on net worth" (RONW).		2. Return on equity may also be calculated by dividing net income by average shareholders' equity. Average shareholders' equity is calculated by adding the shareholders' equity at the beginning of a period to the shareholders' equity at period's end and dividing the result by two. 3. Investors may also calculate the change in ROE for a period by first using the shareholders' equity figure from the beginning of a period as a denominator to determine the beginning ROE. Then, the end-of-period shareholders' equity can be used as the denominator to determine the ending ROE. Calculating both beginning and ending ROEs allows an investor to determine the change in profitability over the period. Things to Remember •If new shares are issued then use the weighted average of the number of shares throughout the year. •For high growth companies you should expect a higher ROE. •Averaging ROE over the past 5 to 10 years can give you a better idea of the historical growth.
Gross	Gross profit margin is a financial metric used to	OPERATING PERFORMA Sales – Cost of Sales	There are several layers of profitability that analysts monitor to
Profit Margin	assess a company's financial health and business model by revealing the proportion of money left over from revenues after accounting for the cost of goods sold (COGS). Gross profit margin, also known as gross margin, is calculated by dividing gross profit by revenues. Also known as "gross margin."	Sales Sales	assess the performance of a company, including gross profit, operating profit and net income. Each level provides information about a company's profitability. Gross profit, the first level of profitability, tells analysts how good a company is at creating a product or providing a service compared to its competitors. Gross profit margin, calculated as gross profit divided by revenues, allows analysts to compare business models with a quantifiable metric. Gross Profit Margin Without an adequate gross margin, a company is unable to pay for its operating expenses. In general, a company's gross profit margin should be stable unless there have been changes to the company's business model. For example, when companies automate certain supply chain functions, the initial investment may be high; however, the cost of goods sold is much lower due to lower labor costs.

Operati ng Profit Margin (pretax)		Income from Operations Sales	Gross margin changes may also be driven by industry changes in regulation or even changes in a company's pricing strategy. If a company sells its products at a premium in the market, all other things equal, it has a higher gross margin. The conundrum is if the price is too high, customers may not buy the product. Gross Margin Example Gross profit margin is used to compare business models with competitors. More efficient or higher premium companies see higher profit margins. That is, if you have two companies that both make widgets and one company can make the widgets for a fifth of the cost and in the same amount of time, that company has the edge on the market. The company has figured out a way to reduce the costs of goods sold by five times its competitor. To make up for the loss in gross margin, the competitor counters by doubling the price of its product, which should increase sales. Unfortunately, it increased the sales price but decreased demand, as customers did not want to pay double for the product. The competitor lost gross margin and market share in the process. Suppose ABC company earns \$20 million in revenue from producing widgets and incurs \$10 million in COGS-related expenses. ABC's gross profit is \$20 million minus \$10 million. The gross margin is calculated as gross profit divided by \$20 million, which is 0.50, or 50%. This means ABC earns 50 cents on the dollar in gross margin.
Net	Net profit margin is the ratio of net profits to	Net Income	Net margins vary from company to company, and certain ranges
profit Margin	revenues for a company or business segment. Typically expressed as a percentage, net profit margins show how much of each dollar collected by a company as revenue translates into profit.	Sales	can be expected in certain industries, as similar business constraints exist in each distinct industry. Low profit margins don't necessarily equate to low profits. For example, Wal-Mart Stores Inc. has delivered high returns for its shareholders while operating on net margins less than 5% annually. In fact, in the first quarter of 2016, Walmart's profit margin was 2.66%. In

			contrast, a business with very small operating budget such as an independent contractor working as a freelance writer has a very small overhead and as a result, most of its revenue is tied to profits. However, although freelance writing may have a high profit margin, its annual profits may seem low when compared to a multinational corporation such as Walmart. Most publicly traded companies report their net margins both quarterly during earnings releases and in their annual reports. Companies that are able to expand their net margins over time are generally rewarded with share price growth, as share price growth leads directly to higher levels of profitability. Net profit margin is one of the most important indicators of a business's financial health. It can give a more accurate view of how profitable a business is than its cash flow, and by tracking increases and decreases in its net profit margin, a business can assess whether or not current practices are working. Additionally, because net profit margin is expressed as a percentage rather than a dollar amount, as net profit is, it makes it possible to compare the profitability of two or more businesses regardless of their differences in size. Finally, a business can use its net profit margin to forecast profits based on revenues.
		ASSET UTILIZATION	
Cash		Sales	
Turnov		Average Cash and	
er	A C C C	Equivalents	D : 11 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Accoun	An accounting measure used to quantify a firm's	Sales Avarage Account	Receivable turnover ratio is also often called "accounts receivable turnover," the "accounts receivable turnover ratio"
Receiv	effectiveness in extending credit and in collecting debts on that credit. The receivables turnover ratio	Average Account Receivables	or the "debtor's turnover ratio."
able	is an activity ratio measuring how efficiently a	Receivables	In essence, the receivables turnover ratio indicates the
Turnov	firm uses its assets.		efficiency with which a firm manages the credit it issues to
er	Receivables turnover ratio can be calculated by		customers and collects on that credit. Because accounts
	dividing the net value of credit sales during a given		receivable are moneys owed on a credit agreement without
	period by the average accounts receivable during		interest, by maintaining accounts receivable firms are indirectly
	the same period. Average accounts receivable can		extending interest-free loans to their clients. As such, because
	be calculated by adding the value of accounts		of the time value of money principle, a firm loses more money
	receivable at the beginning of the desired period to		the longer it takes to collect on its credit sales.

their value at the end of the period and dividing the sum by two.

The receivables turnover ratio is most often calculated on an annual basis, though this can be broken down to find quarterly or monthly accounts receivable turnover as well.

A high receivables turnover ratio can imply a variety of things about a company. It may suggest that a company operates on a cash basis, for example. It may also indicate that the company's collection of accounts receivable is efficient, and that the company has a high proportion of quality customers that pay off their debts quickly. A high ratio can also suggest that the company has a conservative policy regarding its extension of credit. This can often be a good thing, as this filters out customers who may be more likely to take a long time in paying their debts. On the other hand, a company's policy may be too conservative if it is too tight in extending credit, which can drive away potential customers and give business to competitors. In this case, a company may want to loosen policies to improve business, even though it may reduce its receivables turnover ratio.

A low ratio, in a similar way, can also suggest a few things about a company, such as that the company may have poor collecting processes, a bad credit policy or none at all, or bad customers or customers with financial difficulty. Theoretically, a low ratio can also often mean that the company has a high amount of cash receivables for collection from its various debtors, should it improve its collection processes. Generally, however, a low ratio implies that the company should reassess its credit policies in order to ensure the timely collection of imparted credit that is not earning interest for the firm.

Uses of 'Receivables Turnover Ratio'

The receivables turnover ratio has several important functions other than simply assessing whether or not a company has issues collecting on credit. Though this offers important insight, it does not tell the whole story. For example, if one were to track a company's receivables turnover ratio over time, it would say much more about the company's history with issuing and collecting on credit than a single value can. By looking at the progression, one can determine if the company's receivables turnover ratio is trending in a certain direction or if there are certain recurring patterns. What is more, by tracking this ratio over time alongside earnings, one may be able to determine

			whether a company's credit practices are helping or hurting the company's bottom line. While this ratio is useful for tracking a company's accounts receivable turnover history over time, it may also be used to compare the accounts receivable turnover of multiple companies. If two companies are in the same industry and one has a much lower receivables turnover ratio than the other, it may prove to be the safer investment.
Invento	Inventory turnover is a ratio showing how many	Cost of Sales	Inventory turnover measures how fast a company is selling
ry Turnov er	times a company's inventory is sold and replaced over a period of time. The days in the period can then be divided by the inventory turnover formula to calculate the days it takes to sell the inventory on hand. It is calculated as sales divided by average inventory.	Average Inventory	inventory and is generally compared against industry averages. A low turnover implies weak sales and, therefore, excess inventory. A high ratio implies either strong sales and/or large discounts. The speed with which a company can sell inventory is a critical measure of business performance. It is also one component of the calculation for return on assets (ROA); the other component is profitability. The return a company makes on its assets is a function of how fast it sells inventory at a profit. As such, high turnover means nothing unless the company is making a profit on each sale.
Workin	Working capital turnover is a measurement	Sales	The working capital turnover ratio measures how well a
g Capital Turnov er	comparing the depletion of working capital used to fund operations and purchase inventory, which is then converted into sales revenue for the company. The working capital turnover ratio is used to analyze the relationship between the money that funds operations and the sales generated from these operations.	Average Working Capital	company is utilizing its working capital for supporting a given level of sales. Because working capital is current assets minus current liabilities, a high turnover ratio shows that management is being very efficient in using a company's short-term assets and liabilities for supporting sales. In contrast, a low ratio shows a business is investing in too many accounts receivable (AR) and inventory assets for supporting its sales. This may lead to an excessive amount of bad debts and obsolete inventory. Pros and Cons of High Working Capital Turnover A high working capital turnover ratio shows a company is running smoothly and has limited need for additional funding. Money is coming in and flowing out on a regular basis, giving the business flexibility to spend capital on expansion or inventory. A high ratio may also give the business a competitive edge over similar companies.

			However, an extremely high ratio, typically over 80%, may indicate a business does not have enough capital supporting its sales growth. Therefore, the company may become insolvent in the near future. The indicator is especially strong when the accounts payable (AP) component is very high, indicating that management cannot pay its bills as they come due. For example, gold mining and silver mining have average working capital turnover ratios of approximately 82%. Gold and silver mining requires ongoing capital investment for replacing, modernizing and expanding equipment and facilities, as well as finding new reserves. An excessively high turnover ratio may be discovered by comparing the ratio for a specific business to ratios reported by other companies in the industry.
PPE Turnov	Property, plant and equipment (PP&E) is a company asset that is vital to business operations	Sales Average PPE	PP&E is also called tangible fixed assets. These assets are physical, tangible assets and they are expected to generate
er	but cannot be easily liquidated, and depending on the nature of a company's business, the total value of PP&E can range from very low to extremely high compared to total assets. International accounting standard 16 deals with the accounting treatment of PP&E. It is listed separately in most financial statements because it is treated differently in accounting statements, and improvements, replacements and betterments can pose accounting issues depending on how the costs are recorded.		economic benefits for a company for a period of longer than one year. Examples of PP&E include land, buildings and vehicles. Industries or businesses that require a large amount of fixed assets are described as capital intensive. Financial Statement Record PP&E is recorded in a company's financial statements in the balance sheet. The cost of PP&E considers the actual cost of purchasing and bringing the asset to its intended use. This cost is called the historical cost. For example, when purchasing a building for a company to run its retail operations, the historical cost could include the purchase price, transaction fees and any improvements made to the building to bring it to its destined use. The value of PP&E is adjusted routinely as fixed assets generally see a decline in value due to use and depreciation. Amortization is used to devalue these assets as they are used, but land is not amortized because it can increase in value. Instead, it is represented at current market value. The balance of the PP&E account is remeasured every reporting period, and, after accounting for historical cost and amortization, is called the book value. This figure is reported on the balance sheet. Significance

			While PP&E is generally meant to be held and used by the company in the course of its business, it is considered an asset because a company could sell its property, plant or equipment, either because it is no longer of use or if the company runs into financial difficulties. Of course, selling property, plant and equipment that is necessary to a company's course of business could be drastic and could signal that a company is in financial trouble. It is important to note, that whatever the reason a company has in selling some of its property, plant or equipment, it is unlikely that a company will make a profit on the sale of the asset.
Total	Asset turnover ratio is the ratio of the value of a	Sales	Asset turnover is typically calculated over an annual basis using
Asset	company's sales or revenues generated relative to	Average Total Assets	either the fiscal or calendar year. The total assets number used
Turnov er	the value of its assets. The Asset Turnover ratio can often be used as an indicator of the efficiency		in the denominator can be calculated by taking the average of assets held by a company at the beginning of the year and at the
	with which a company is deploying its assets in		year's end.
	generating revenue.		Using the Asset Turnover Ratio
	Generally speaking, the higher the asset turnover		Consider the asset turnover ratio for Wal-Mart Stores Inc.
	ratio, the better the company is performing, since higher ratios imply that the company is generating		(WMT). When the fiscal year ended on January 31, 2014, Wal-Mart had total revenues of \$476 billion. Wal-Mart's total assets
	more revenue per dollar of assets. Yet, this ratio		were \$203 billion at the beginning of that fiscal year and \$205
	can vary widely from one industry to the next. As		billion at fiscal year-end, for an average of \$204 billion. Wal-
	such, considering the asset turnover ratios of an		Mart's asset turnover ratio was therefore 2.36 (\$476 billion/
	energy company and a telecommunications		\$204 billion).
	company will not make for an accurate		In contrast, AT&T Inc. (T) had total revenues of \$132 billion
	comparison. Comparisons are only meaningful		when the fiscal year ended on December 31, 2014. Total assets
	when they are made for different companies within		at the beginning and end of the 2014 fiscal year were \$278
	the same sector.		billion and \$293 billion respectively, for an average asset base of \$287 billion. AT&T's asset turnover ratio in 2014 was
			therefore 0.46 (\$132 billion / \$287 billion).
			Clearly, it would not make much sense to compare the asset
			turnover ratios for Wal-Mart and AT&T, since they operate in
			very different industries. But comparing the asset turnover
			ratios for AT&T and Verizon Communications Inc. (VZ), for
			instance, may provide a clearer picture of asset use efficiency
			for these telecom companies. In the same fiscal year as in the
			AT&T example above, Verizon had total revenues of \$127

billion and \$2.32 billion, respectively, for an average asset base of \$2.73 billion, and \$2.32 billion, respectively, for an average asset base of \$2.73 billion, and \$2.32 billion, respectively, for an average asset base of \$2.73 billion, and \$2.32 billion, respectively, for an average asset base of \$2.73 billion, respectively, for an average asset base of \$2.73 billion, respectively, for an average asset base of \$2.73 billion, respectively, for an average asset base of \$2.73 billion, respectively, for an average asset base of \$2.73 billion, respectively, for an average asset base of \$2.73 billion, respectively, for an average asset base of \$2.73 billion, respectively, for an average asset base of \$2.73 billion, respectively, for an average asset base of \$2.73 billion, respectively, for an average asset base of \$2.73 billion, respectively, for an average asset base of \$2.73 billion, as \$2.73 billion, respectively, for an average asset tamover ratio of \$2.73 billion, respectively, for an average asset tamover ratio of \$2.73 billion, respectively, for an average asset tamover ratio of \$2.73 billion, respectively, for an average asset tamover ratio of \$2.73 billion, respectively, for an average asset tamover ratio of \$2.73 billion, asset turnover ratio and \$2.74 billion for \$2.73 billion, respectively billion, respectively, and the price as an expect to reach of \$2.73 billion for promance and for expeasing and respect to reach of the price of a billion of being profit manalysis breast down Return on Equity (ROE) into three parts, one of which is asset turnover ratio an allows one to analyze the nuances of a high or 100 ROE, to attempt to being profit margin and financial leverage, to respect to its per-share earnings as a system that a bourse of a high or 100 ROE, to attempt to being profit margin and financial leverage, to a being profit and analysis breast turnover ratio and analysis breast turnover ratio and analysis breast turnover ratio and analysis breast during the analysis breast turnover ratio (ROE) into				billion. Total assets at the beginning and and of the year ware
base of \$253 billion. As such, in 2014 Verizon's asset turnover ratio was 0.50 (\$127 billion / \$253 billion), about 9% higher than AT&T's in the same year. Yet, this kind of comparison does not necessarily paint the clearest possible picture. It is possible that a company's asset turnover ratio as 0.30 in 2006, it rose nearly a full fifty percent to reach 0.44 in 2007, the following year. For any specific company, then, one would do well to review the trend in the asset turnover ratio over a period of time to check whether asset usage is improving or deteriorating. Many other factors can affect a company's asset turnover ratio in a given year, such as whether or not an industry is cyclical. History The Asset Turnover ratio is a key component of DuPont analysis, a system that the DuPont Corporation began using during the 1920s. DuPont analysis breaks down Return on Equity (ROE) into three parts, one of which is asset turnover, the other two being profit margin and financial leverage. In splitting ROE into distinct components, this form of analysis allows one to analyze the nuances of a high or low ROE, to attempt to determine what causes may be contributing to a company's ROE performance and to compare the components of ROE with those of other companies. **MARKET MEASURES** **Market Price per Share** **Earnings per Share** **Earnings ratio indicates the dollar amount an investor can expect to invest in a company in order to receive one dollar of that company's earnings. This is why the P/E is smort often derived from the last four quarters. This form of the price-earnings ratio is is that an investor is willing to pay per dollar of earnings. If a company were currently trading at a multiple (P/E)				billion. Total assets at the beginning and end of the year were
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subtracting a company's share value at the beginning of the 12-month period from its value at the period's end, adjusting for stock splits if there have been any. Sometimes, price-earnings can also be taken from analysts' estimates of earnings expected during the next four quarters. This form of price-earnings is also called projected or forward P/E. A third, less common variation uses the sum of the last two actual quarters and the estimates of the next two quarters.

The price-earnings ratio is also sometimes known as the price multiple or the earnings multiple.

In general, a high P/E suggests that investors are expecting higher earnings growth in the future compared to companies with a lower P/E. A low P/E can indicate either that a company may currently be undervalued or that the company is doing exceptionally well relative to its past trends. When a company has no earnings or is posting losses, in both cases P/E will be expressed as "N/A." Though it is possible to calculate a negative P/E, this is not the common convention.

The price-earnings ratio can also be seen as a means of standardizing the value of one dollar of earnings throughout the stock market. In theory, by taking the median of P/E ratios over a period of several years, one could formulate something of a standardized P/E ratio, which could then be seen as a benchmark and used to indicate whether or not a stock is worth buying.

An individual company's P/E ratio is much more meaningful when taken alongside P/E ratios of other companies within the same sector. For example, an energy company may have a high P/E ratio, but this may reflect a trend within the sector rather than one merely within the individual company. An individual company's high P/E ratio, for example, would be less cause for concern when the entire sector has high P/E ratios.

Moreover, because a company's debt can affect both the prices of shares and the company's earnings, leverage can skew P/E ratios as well. For example, suppose there are two similar companies that differ primarily in the amount of debt they take on. The one with more debt will likely have a lower P/E value than the one with less debt. However, if business is good, the one with more debt stands to see higher earnings because of the risks it has taken.

Another important limitation of price-earnings ratios is one that lies within the formula for calculating P/E itself. Accurate and unbiased presentations of P/E ratios rely on accurate inputs of the market value of shares and of accurate earnings per share estimates. While the market determines the value of shares and, as such, that information is available from a wide variety of reliable sources, this is less so for earnings, which are often

			reported by companies themselves and thus are more easily manipulated. Since earnings are an important input in calculating P/E, adjusting them can affect P/E as well. (See also, How can the P/E ratio mislead investors?) Things to Remember •Generally a high P/E ratio means that investors are anticipating higher growth in the future. •The average market P/E ratio is 20-25 times earnings. •The P/E ratio can use estimated earnings to get the forward looking P/E ratio. •Companies that are losing money do not have a P/E ratio. •You can expand your financial vocabulary by subscribing to our Term of the Day newsletter.
Earning s Yield	A financial ratio that indicates how much a company pays out in dividends each year relative to its share price. Dividend yield is represented as a percentage and can be calculated by dividing the dollar value of dividends paid in a given year per share of stock held by the dollar value of one share of stock. Yields for a current year are often estimated using the previous year's dividend yield or by taking the latest quarterly yield, multiplying by 4 (adjusting for seasonality) and dividing by the current share price.	Earnings per Share Market Price per Share	Dividend yield is a way to measure how much cash flow you are getting for each dollar invested in an equity position. In other words, it measures how much "bang for your buck" you are getting from dividends. In the absence of any capital gains, the dividend yield is effectively the return on investment for a stock. To better explain the concept, refer to the following dividend yield example. Suppose company ABC's stock is trading at \$20 and pays annual dividends of \$1 per share to its shareholders. Also suppose that company XYZ's stock is trading at \$40 and also pays annual dividends of \$1 per share. This means that company ABC's dividend yield is 5% (1 / 20 = 0.05), while XYZ's dividend yield is only 2.5% (1 / 40 = 0.025). Assuming all other factors are equivalent, then, an investor looking to use his or her portfolio to supplement his or her income would likely prefer ABC's stock over that of XYZ, as it has double the dividend yield. Investors who require a minimum stream of cash flow from their investment portfolio can secure this cash flow by investing in stocks paying relatively high, stable dividend yields. Yet, high dividends may often come at the cost of growth potential. Every dollar a company is paying in dividends to its shareholders is a dollar that company is not reinvesting in itself in an effort to make capital gains. While being paid for holding

Divide nd Yield		Cash Dividend per Share Market Price per Share	a stock is attractive to many, and for good reason, shareholders can earn high returns if the value of their stock increases while they hold it. In other words, when companies pay high dividends it may come at a cost.
Divide nd Payout Rate	The dividend payout ratio is the percentage of earnings paid to shareholders in dividends.	Cash Dividend per Share Earnings per Share	The dividend payout ratio provides an indication of how much money a company is returning to shareholders, versus how much money it is keeping on hand to reinvest in growth, pay off debt or add to cash reserves. This latter portion is known as retained earnings. How to Interpret the Ratio A number of considerations go into interpreting the dividend payout ratio, most importantly the company's level of maturity. A new, growth-oriented company that aims to expand, develop new products and move into new markets would be expected to reinvest most or all of its earnings and could be forgiven for having a low or even zero payout ratio. On the other hand, an older, established company that returns a pittance to shareholders would test investors' patience and could tempt activists to intervene. Apple (AAPL) began to pay a dividend for the first time in nearly twenty years in 2012, when the new CEO felt the company's enormous cash flow made a 0% payout ratio difficult to justify. Because it implies that a company has moved past its initial growth stage, a high payout ratio means share prices are unlikely to appreciate rapidly. The payout ratio is also useful for assessing a dividend's sustainability. Companies are extremely reluctant to cut dividends, since it can drive the stock price down and reflect poorly on the management's abilities. If a company's payout ratio is over 100%, it is returning more money to shareholders than it is earning and will probably be forced to lower the dividend or stop paying it altogether. That result is not inevitable, however. A company can weather a bad year without suspending payouts, and it is often in their interest to do so. It is therefore important to consider future earnings expectations and

Price to Book	The price-to-book ratio (P/B Ratio) is a ratio used to compare a stock's market value to its book value. It is calculated by dividing the current closing price of the stock by the latest quarter's book value per share. Also known as the "price-equity ratio". A lower P/B ratio could mean that the stock is undervalued. However, it could also mean that something is fundamentally wrong with the company. As with most ratios, be aware that this varies by industry. This ratio also gives some idea of whether you're paying too much for what would be left if the company went bankrupt immediately.	Market Price per Share Book Value per Share	calculate a forward-looking payout ratio to contextualize the backward-looking one. Long-term trends in the payout ratio also matter. A steadily rising ratio could indicate a healthy, maturing business, but a spiking one could mean the dividend is heading into unsustainable territory. Dividends Are Industry Specific Dividend payouts vary widely by industry, and like most ratios, they are most useful to compare within a given industry. REITs, for example, are legally obligated to distribute at least 90% of earnings to shareholders, as they enjoy special tax exemptions. MLPs tend to have high payout ratios as well. Dividends are not the only way companies can return value to shareholders, so the payout ratio does not always provide a complete picture. The augmented payout ratio incorporates share buybacks into the metric; it is calculated by adding dividends and buybacks and dividing the sum by net income for the same period. If the result is too high, it can indicate an emphasis on short-term boosts to share prices at the expense of reinvestment and long-term growth. The P/B ratio reflects the value that market participants attach to a company's equity relative to its book value of equity. A stock's market value is a forward-looking metric that reflects a company's future cash flows. The book value of equity is an accounting measure that is based on the historic cost principle, and reflects past issuances of equity, augmented by any profits or losses, and reduced by dividends and share buybacks. Advantages and Disadvantages to the P/B Ratio Investors find the P/B ratio useful because the book value of equity provides a relatively stable and intuitive metric that can be easily compared to the market price. Also, the P/B ratio can be used for firms with positive book values and negative earnings since negative earnings render price-to-earnings ratios useless, and there are fewer companies with negative book values than companies with negative earnings. However, when
			values than companies with negative earnings. However, when accounting standards applied by firms vary, P/B ratios may not

	countries. Also, P/B ratios can be less useful for services and
	information technology companies with little tangible assets on
	their balance sheets. Finally, the book value can become
	negative as a result of a long series of negative earnings, making
	the P/B ratio useless for relative valuation purposes.