Formulae of ratios with their brief interpretations

Name of ratio	Formula	Interpretation
Gross margin (profit ratio)	Gross Margin ÷ Net sales revenue	It reflects the gross margin earned by the firm through manufacturing or trading as a proportion of revenue. The gross profit margin reflects the
		company's performance based on the cost of production and the efficiency of reducing the manufacturing cost. It is believed
		that this ratio should be constant or show an upward trend, which in turn reflects the operational and cost
		efficiency of the organization. This ratio in most cases is useful for manufacturing organizations.
Profit margin	Net Income or PAT ÷ Sales revenue	The net profit ratio is computed to measure the overall efficiency of the organization based on its revenue. This ratio can be calculated with profit before tax or profit after tax, and it reflects the overall
Return on assets	Profit after tax ÷ Total assets	organizational efficiency. It indicates the profit earned on
		assets used.
	Or	
	[Net Income + Interest (1 — Tax rate)] ÷ (Total assets)	
Return on invested capital (ROIC)	[Net income + Interest (1 — Tax rate)]) ÷ (Long Term liabilities + Shareholders' equity)	The objective of ROIC is to use permanent capital. It assesses how efficiently a company is able to get the cash flow relative to the capital it
	Or	has invested in its business.
	EBITDA ÷ [Debt (Outside liabilities) + Equity]	
Return on shareholders' equity (ROE)	Net income or PAT ÷ Shareholders' equity	This ratio reflects the earnings on the shareholders' fund, i.e., equity, reserves, and surpluses. It indicates the return of the owners' fund and shows the management and owners of the company the trend of profits generated by the company.
Earnings per share (EPS)	Net income or PAT ÷ Number of shares outstanding	This is the amount of profit available to each equity shareholder after payment of all other expenses. This ratio is useful to potential investors for making investment decisions and is also used to give shareholders information about the earnings on their shares.

Price earnings ratio (P/E ratio) Assets turnover ratio	Market price per share ÷ Net income per share (EPS) Sales revenue ÷ Total assets	The P/E ratio is a prominent indicator of a firm's performance vis-à-vis the market price of its common stock. The P/E ratio indicates the performance of the company as anticipated/judged by investors. It also indicates how the company will perform in the future in the view of the market and investors. It indicates efficiency in asset use and explains the revenue-generating capacity with the help of total assets.
Fixed assets turnover	Sales revenue ÷ Fixed assets	This explains the revenue-generating capacity of the firm with respect to the fixed assets employed.
Capital intensity	Sales revenue ÷ PPE (property, plant & equipment)	Companies with large investments in PPE (such as petrochemical firms, refineries, and steel firms) focus on this ratio. Investments in PPE severely impact the cyclical fluctuations in the business activity of a firm. This ratio indicates the contribution by PPE to the revenue of the company.
Invested capital turnover	Sales revenue ÷ (Long term liabilities + shareholders' equity)	This ratio is analyzed in comparison with return on investment (ROI). ROI is the firm's profit margin × investment turnover.
Inventory turnover	Cost of goods sold or Cost of sales Average inventory	This ratio explains the movement of inventories in relation to revenue. A high inventory turnover ratio indicates fast movement of inventory. A low inventory turnover ratio indicates slow movement of inventory, which further indicates the firm's efficient movement of inventory.
Inventory days	365 days or 52 weeks or 12 months Inventory turnover Or Inventory	This ratio indicates the movement of the firm's inventory in days.
	Cost of sales ÷ 365	

Receivable turnover	Credit sales ÷ Average accounts receivable	This indicates the movement of debtors with reference to credit revenue. It is computed to assess the efficiency in the management/collection of accounts receivable.
Receivable days	365 days or 52 weeks or 12 months Receivable turnover	This indicates the management of receivables in days.
	Or	
	Average accounts receivable	
	Credit sales ÷ 365	
Payable turnover	Credit purchases Average accounts payable	This indicates payables with reference to credit purchases. It is computed whether payables are paid on time or not.
		on time or not.
Payable days	365 days or 52 weeks or 12 months	This indicates how many days' payment is made to suppliers. It
	Payable turnover	assesses the efficiency in the management/payment of accounts
	Or	payable.
	Average accounts payable	
	Credit sales ÷ 365	
Working capital turnover (where Working capital is Current assets - Current liabilities)	Sales revenue ÷ Working capital	This ratio explains how quickly the working capital, i.e., the net current assets, rotates. The higher the turnover, the better the working capital utilization.
Current ratio	Current assets ÷ Current liabilities	This ratio indicates the company's ability to pay its short-term liabilities (payables). The higher the ratio, the more capable the company is of paying its current obligations. However, a high current ratio also indicates a large portion of working capital, which may reduce the firm's profitability. Hence, the ratio should be neither too high nor too low.
Acid test (quick) ratio	Quick assets ÷ Current liabilities	This ratio is calculated to assess the liquidity position of the firm. How fast can the firm pay its present obligations? This ratio is a more rigorous test of liquidity than the current ratio.

Financial leverage	Assets ÷ Shareholders' equity	This ratio measures the total debt
ratio	Assets Shareholders equity	load of a company and then
1800		compares it with either assets or
		equity. It indicates the ratio of assets
		owned by shareholders and
		creditors. When the majority of the
		assets are owned by shareholders of
		the company, it is believed that the
		firm is less leveraged. When
		creditors own the majority of the
		assets, it is said to be highly
		leveraged. This indicator is required
		to assess the riskiness in the capital structure of any organization in
		order to decide whether the
		investment in such a firm should
		be undertaken or not.
Debt-to-equity ratio	Long term liabilities ÷ Shareholders' equity	Debt usually has a lower cost than
1,	3	cost of equity; hence, it is used to
	Or	improve ROE. Raising financing
		through debt increases the fixed
	Total liabilities ÷ Shareholders' equity	liabilities in terms of the payment of
		interest. It also adds to financial risk.
		Such liability has to be met even if
		the business is not performing well.
		The entity may suffer a loss if the ROI is lower than the cost of debt
		(interest); therefore, the debt-to-
		Leguity ratio should be reasonable
Debt capitalization	Long term liabilities	equity ratio should be reasonable. This ratio indicates the financial risk
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Dividend yield	Dividend per share ÷ Market price per share	This ratio indicates the dividend paid by the company each year relative to its share price.
Dividend payout	Dividends ÷ Net income	This ratio indicates the amount of
		profit distributed to the shareholders
	Or	and the amount kept as retained
		earnings in the business. When
	Dividends ÷ Earnings per share	compared with the industry and
	Dividends / Zamings per smale	previous years, it shows good future
		prospects of the company if the
		retained earnings are high and the
		payout is low.