Evaluation of firms through financial statements

Standards of comparison

In using dollar and percentage changes, trend percentages, component percentages and ratios, we require standards of comparison to judge whether the relationships they have found are favourable or not. Two common standards are:

Past performance of the company - year on year growth, x-year average of change/absolute numbers

- Known as horizontal analysis
- Does not give basis of comparison in absolute terms, only relative terms e.g. if profit was 2% last year, 3% this year, but should be at 7%, unfavourable in both years

Performance of other companies in the same industry

- Conclusions now have a fair basis for comparison
- Conclusive only if companies used for comparison are reasonably comparable in their core businesses and skills

Methods of analysis:

- Ratios
- · Trend percentages
- Absolute values
- Averages
- · Percentage compositions

Qualitative considerations in analysis	
Quality of earnings	In assessing the prospects of a company, we are interested not only in the amount of earnings, but also the rate, stability and source of earnings.
	Breakdown of sales and earnings by major product lines is a useful method of organising the business before proceeding with quantitative analysis.
	Satisfactory earnings indicate company's long term ability to pay its debts and dividends
Quality of assets and amount of debt	Aside from satisfactory earnings and performance, one must also look at:
	 Composition condition and liquidity of assets Timing of repayment of liabilities, total liabilities
	e.g. company may be profitable now, but with PPE deteriorating, patens expiring etc. losses may be imminent
Industry information & annual reports	Indicates company's past performance, summaries of key financial data and management's discussion and analysis. Could be insightful.
Accounting methods	In judging the quality of assets and earnings, the analyst should consider the impacts of the accounting methods used when proceeding with quantitative analysis – the meaning of the numbers depends on these assumptions. There is always a risk of window dressing.
	Inventory methods
	Depreciation methodsValuing financial assets
	· ·
	Other considerations • Unused lines of credit
	Concentration of credit risks

Quantitative indicators		
Measurement	Computation	Significance
	Short-term liquidity	
businesses. Their primary interest, howe	rest as shareholders and bondholders in the ever, is the current position of the company a erating needs and to pay debts promptly.	
	Stability	
Current ratio	Current assets	Measures short-term debt
	Current liabilities	paying ability. • Higher, more liquid; but whether that's good or bad depends on the quality of current assets.
		E.g. high current ratios due to slow turnover in receivables and inventory
Quick Ratio	Quick assets Current liabilities	Quick assets: the most liquid assets (cash and its equivalents, some receivables)
		Especially useful in evaluating liquidity of companies with slow inventory turnover or large inventories
Working capital	Current assets - Current liabilities	Measures a company's potential
v ,		excess sources of cash over its upcoming uses of cash. Hence liquidity and size of 'cushion' over the amount expected to bee needed in the near future to satisfy maturing obligations
Debt ratio	Total liabilities Total liabilities	Measures the proportion of total assets financed by creditors distinguished from shareholders
Quality of assets		,
% composition receivables less impairment losses	Found in statement of financial position	Indicates types of assets to explain potential changes in other indicators
% composition non-current assets		
% composition quick assets		
Types of liabilities % composition unearned revenue	Found in statement of financial position	Indicates types of liabilities to explain
% composition current liabilities	1 ound in statement of infancial position	potential changes in other indicators
Non-current liabilities	-	potential changes in other maleatore
Quality of working capital	<u> </u>	1
Accounts receivable turnover rate	Net sales Average balance of net receivables	Indicates how fast a company converts its receivables into cash
Days required to accounts receivable	365	
Inventory turnover rate	Accounts receivable turnover rate COGS Average balance of inventory	Indicates how fast a company can clear its inventory
dovo required to cell inventor.	365	Especially important for companies with small gross profit margins (e.g. dollar store)
days required to sell inventory	Inventory turnover rate	vs jewellery)
Operating cycle	Days to turnover inventory + days to collect receivables	How quickly inventory sells and converts into cash
Cash flow analysis		

In cash flow statement

Days to collect accounts receivable + sell

inventories – pay back payables

Net cash from operating activities – cash

used for investing activities and dividends

Cash flow from operations

Current liabilities

Net cash from operating activities

Cash conversion cycle

Free cash flow

Cashflow from operations to current

liabilities

Indicates cash flow from operating

cash and return to a stable state

maturing liabilities from normal

over basic needs

operations

activity after allowing for cash payment of expenses and operating liabilities

Indicates company's ability to generate

Indicates excess of operating cash flow

Indicates company's ability to cover

Long-term credit risk		
Long-term creditors are primarily interes the firm's ability to repay the principal of	ted in three factors: rate of return, firm's abilit	ty to meet its interests requirements and
Yield rate on bonds	Bond interest rate	Yield rate = bond interest rate, which varies inversely with changes in market price of the bond
Interest coverage ratio	Operating profit Annual interest expense	Measure's company's ability to cover its annual interest obligations
Trend in net cash from operating activities	Appears in comparative statement of cash flows	Indicator of company's long term ability to generate cash for obligations
Profitability & adequacy of profit		
	n evaluating profitability: the trend and the ar	mount of current earnings relative to the
amount of resources needed to produce		1 1 2 4 64 1 22 6 1 1 2 2
Gross profit Profit margin	Net sales – COGS Gross profit/sales	Indicates profitability of merchandising operations
Operating expenses: sales	Found in income statement	Indicates expenses managed by
Operating expenses: administrative	T sund in income statement	management
Non-operating expenses: interest		Indicates expenses faced by company
Non-operating expenses: taxes		
Profit	P. 6	Measures management's ability to
Profit as a percentage of sales	Profit Net sales	control expenses and retain a reasonable portion of revenue as profit Measures management
Return on investment	Returns	Measures efficiency with which
rotani on invocation	Average amount invested	financial resources are employed to generate earnings
Return on assets	Operating profit	To evaluate whether
	Assets	management has earned a
		reasonable return with the
		assets under its control.
		Return is defined as operating profit pines interest sympass.
		profit since interest expense and income taxes are
		determined by factors other
		than the manner in which the
		assets are used.
		 If a company is well managed,
		it should be able to earn return
		on assets higher than the company's cost of borrowing
Return on equity	Profit	Return earned by management on
. totalii oquity	Total average equity	shareholder investments - equity
Percentage changes in net sales	Found in annual report	Growth rate
Percentage changes in net income		
Operating expense ratio	Operating expenses	Measures management's ability to
0 (: :	Net sales	manage resources to generate income
Operating income Evaluating shares	Gross profit – operating expenses	
Market value	_	Indicates investors expectations and
Warket value	_	market conditions
Dividend yield	Annual dividend	
	current share price	
Earnings per share	Profit	Indicates profit applicable to each
·	Shares	share
Price-earnings ratio	Market price per share/annual earnings	Indicates expectations
	per share Market price per share	concerning a company's future performance. The more
	Annual earnings per share	optimistic, the higher the ratio
	rimuai cariniigs per siiare	Generally, >20, earnings
		expected to climb. <10,
		decline. >30, over-valued
		 Note: if earnings decline to
		very low levels, price of shares
		usually don't follow the
		earnings all the way down – so a company in bad shape may
		have a high p/e ratio even if
		expectations are poor