ACCOUNTING RATIOS: FORMULAS

Ratio analysis is the technique of interpreting the final accounts of businesses in order to assess strengths and weaknesses. A business needs to be performing well in areas of:

- · profitability
- · liquidity
- capital structure

The formulas for these ratios are set out on these two sheets. Note that the word 'ratio' can be misleading because the performance indicators produced by these formulas may also be percentages or measurements such as days.



PROFITABILITY RATIOS

Gross profit margin =
$$\frac{\text{Gross profit}}{\text{Revenue}}$$
 x 100

Gross profit mark-up =
$$\frac{\text{Gross profit}}{\text{Cost of sales}}$$
 x 100

- * also known as profit in relation to revenue
- ** use operating profit (ie profit from operations) if the figure is available

Return on capital employed = $\frac{\text{Net profit}^*}{\text{Capital employed}^{\dagger}}$ x 100

- * use operating profit (ie profit from operations) if the figure is available
- † for limited companies: this is ordinary share capital + reserves + preference share capital + loan capital; for sole traders, capital employed is the owner's capital in the business

LIQUIDITY RATIOS

Net current asset ratio* =

Current assets

Current liabilities

* also known as the current ratio, or working capital ratio

Liquid capital ratio* =

Current assets – Inventories

Current liabilities

* also known as the acid test or quick ratio

Rate of inventory turnover (days) =

= Average inventory*

x 365 days

Cost of sales

* usually taken as: (opening inventories + closing inventories) ÷ 2; alternatively, if opening inventories figure not available, use closing inventories from the balance sheet in the calculation

Trade receivables days =

Trade receivables

Revenue

x 365 days

Trade payables days =

Trade payables

x 365 days

Credit purchases

or cost of sales

CAPITAL STRUCTURE RATIO

Gearing ratio* =

Debt (loan capital + preference shares, if any)

Equity (ordinary shares + reserves)

 * also known as capital gearing ratio, or debt/equity ratio; for a percentage multiply the ratio by 100

Note

The gearing ratio set out above relates to the financial statements of a limited company; the ratio for sole traders and partnerships is:

Non-current liabilities

Capital

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