

The following formulae will be used in business and management external assessment. A copy of the formulae will be provided for students in the examination.

Formulae for ratio analysis

Profitability ratios

Gross profit margin =
$$\frac{\text{Gross profit}}{\text{Sales revenue}} \times 100$$

Net profit margin =
$$\frac{\text{Net profit before interest and tax}}{\text{Sales revenue}} \times 100$$

Liquidity ratios

Current ratio =
$$\frac{\text{Current assets}}{\text{Current liabilities}}$$

Acid test (quick) ratio =
$$\frac{\text{Current assets - stock}}{\text{Current liabilities}}$$

Shareholder (stockholder) ratios

Earnings per share
$$= \frac{\text{Net profit after interest and tax}}{\text{Number of ordinary shares}}$$

Dividend yield =
$$\frac{\text{Dividends per share}}{\text{Market price}} \times 100$$

Efficiency ratios

Return on capital employed (ROCE) =
$$\frac{\text{Net profit before interest and tax}}{\text{Total capital employed}^*} \times 100$$

*Capital employed = shareholders' funds + reserves + long-term liabilities



Stock turnover =
$$\frac{\text{Cost of goods sold}}{\text{Average stock}}$$

or

Stock turnover =
$$\frac{\text{Average stock}}{\text{(number of days)}} \times 365$$

Debtor days ratio
$$= \frac{\text{Debtors}}{\text{Total sales revenue}} \times 365$$

Creditor days ratio =
$$\frac{\text{Creditors}}{\text{Total credit purchases}} \times 365$$

Gearing ratio

Gearing ratio =
$$\frac{\text{Loan capital}}{\text{Total capital employed}} \times 100$$

Other formulae

Investment appraisal

Average rate of return
$$=$$

$$\frac{\text{Net return (profit) per annum}}{\text{Capital outlay (cost)}} \times 100$$

Elasticity—HL only