

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	=	Gross profit Sales revenue × 100					
Net profit margin	=	Net profit before interest and tax Sales revenue	× 100				
Liquidity ratios							
Current ratio	=	Current assets Current liabilities					
Acid test (quick) ratio	=	Current assets – stock Current liabilities					
Shareholder (stockholder) ratios							
Earnings per share	=	Net profit after interest and tax Number of ordinary shares					
Dividend yield	=	Dividends per share Market price × 100					
Efficiency ratios							
Return on capital employed (ROCE)	=	Net profit before interest and tax Total capital employed*	× 100				
		*Capital employed = shareholders' fu reserves + long-term liabilities	unds +				

Stock turnover	k turnover	-	Cost of goods sold			
5100			Average stock			
or						
Stoc	k turnover		Average stock			
(number of days)	nber of days)	=	Cost of goods sold	× 365		
HL	Debtor days ratio	_	Debtors	× 365		
	(number of days)	=	Total sales revenue	× 303		
HL	Creditor days ratio	=	Creditors	— × 365		
	(number of days)		Total credit purchase			
Gearing ratio						
Coaring ratio	ing ratio		Loan capital	— × 100		
Gearing ratio		=	Total capital employe			

Other formulae

Investment appraisal

Average rate of return	=	Net return (profit) per annum × 100						
		Capital outlay (cost)	X 100					
HL Net present value	=	Present value of return – original cost						
Elasticity—HL only								
Price elasticity of demand	=	% Change in quantity demand	ed					
		% Change in price						
Cross-elasticity of demand	=	% Change in quantity demanded of good A % Change in price of good B						
Income elasticity of demand =		% Change in quantity demanded % Change in income						
Advertising elasticity of demand	=	% Change in quantity deman % Change in advertising expen						