

Formulae and key data

First published: 4 June 2015, Revised: 29 August 2018

This is a list of formulae to support teaching of our AS/A-level Business specification (7131/7132).

Number	Formula
1	Revenue (Sales or Turnover) = Selling price per unit × Number of units sold
	Variable costs (Total variable costs) = Variable cost per unit × Number of units sold
	Total costs = Fixed costs + Variable costs
	Profit = Total revenue - Total costs OR Total contribution - Fixed costs
2	Market capitalisation of a business = Number of issued shares × Current share price
3	Expected value of a decision with two possible outcomes eg. A & B = $[Pay-off of A \times probability of A] + [Pay-off of B \times probability of B]$
	Net gain = Expected value — Initial cost of decision
4	Market growth (%) =
	Change in the size of the market over a period Original size of the market
5	Market share (%) =
	Sales of one product OR brand OR business Total sales in the market
6	Added value = Sales revenue — costs of bought-in goods and services
7	Labour productivity =
	Output over a time period Number of employees

Number	Formula
8	Unit costs (average costs)=
	Total costs Number of units of output
9	Capacity utilisation (%) =
	Actual output × 100 Maximum possible output
10	Return on investment (%) =
	$\frac{\text{Profit from the investment }(£)}{\text{Cost of the investment }(£)} \times 100$
11	Gross Profit = Revenue - Cost of Sales
	Profit from Operations = Operating profit = Gross profit - Operating Expenses
	Profit for year = Operating profit + Profit from other activities - Net finance costs - Tax
12	Gross profit margin (%) =
	Gross profit Revenue × 100
	Profit from operations margin = Operating profit margin (%) =
	Operating profit Revenue × 100
	Profit for year margin (%) =
	Profit for year Revenue × 100
13	Variance = Budgeted figure – actual figure

Number	Formula
14	Contribution per unit = Selling price - Variable costs per unit
	Total contribution = Contribution per unit × Units sold
	OR
	Total contribution = Total revenue - Total variable costs
15	Break-even output =
	Fixed costs
	Contribution per unit
	Margin of safety = Actual level of output - Break-even level of output
16	Labour turnover (%) =
	Number of staff leaving × 100
	Number of staff employed by the business 2 100
17	Employee retention rate (%) for a particular time period =
	Number of employees who remained with the business
	for the whole period of time Number of employees at start of the time period ×100
18	Employee costs as percentage of turnover =
	$\frac{\text{Employee costs}}{\text{Turnover}} \times 100$
19	Labour cost per unit =
	Labour costs
	Units of output
20	Return on capital employed (ROCE)(%) =
	Operating profit
	Total equity + non-current liabilities × 100
	Where total equity + non-current liabilities = capital employed

Number	Formula
21	Current ratio =
	Current assets Current liabilities
22	Gearing (%) =
	Non-current liabilities Total equity + non-current liabilities ×100
	Where total equity + non-current liabilities = capital employed
23	Payables days =
	Payables Cost of sales × 365
24	Receivables days =
	Receivables Revenue × 365
25	Inventory turnover =
	Cost of sales Average inventories held
26	Average rate of return (%) =
	Average annual return (\mathfrak{E}) Initial cost of project (\mathfrak{E}) × 100

Please note:

It is possible that there may be alternative formulae for some of the calculations listed. Whilst these will be credited if used appropriately, the data in the exam may not be presented in a format that makes the different formula easily usable.

We would therefore recommend using the information presented in this list when preparing for AQA AS/A-level Business exams.