QCE Essential Mathematics Formula Book

Original worked revision examples with notes on units and assumptions.

Use the board PDF below for the official sheet. Coverage of examples varies by subject.

Official reference material

QCAA Essential Mathematics formula book

What to work out beyond the sheet

Check whether the question gives a diameter or a radius, and write the units on the intermediate quantities before converting the final answer.

Formulas and worked examples

Measurement · cylinder volume

Formula or reference: $V = \pi r^2 h$

Units and conditions: Convert radius and height into the same length unit.

Worked example: A cylindrical tank 0.40 m in radius and 1.0 m tall holds about 0.503 m^3, or 503 L.

Finance · simple interest

Formula or reference: $I = Prn$

Units and conditions: r is a decimal rate per period and n counts the same periods.

Worked example: A$900 at 4% annual simple interest for three years earns A$108.