

National 5 Homework

Fractions & Scatter Graph

Q1. Evaluate;

(a) $4\frac{1}{3} - 1\frac{1}{2}$

(b) $\frac{1}{2} \div 2\frac{2}{3}$

Q2. Gross domestic product (GDP) is a measure of economic growth in a country's economy.

GDP per capita is a measure of the current GDP per person, and is found by dividing the GDP by the population. The GDP per capita (in thousands) and average expectancy for countries in Western Europe is recorded in the table below.

Country	GDP per capita (€000s)	Life expectancy (years)
Austria	21.4	77.48
Belgium	23.2	78.29
Finland	20.0	77.32
France	22.7	78.63
Germany	20.8	77.17
Ireland	18.6	76.39
Italy	21.5	78.51
Netherlands	22.0	78.15
Spain	23.8	78.99
United Kingdom	21.2	77.37

- (a) Plot the data on a scatter graph.
- (b) Draw a line of best fit on the graph.
- (c) Calculate the equation of the line of best fit.
- (d) Use the equation to estimate the life expectancy of a Western European country with a GDP per capita (in €000s) recorded as 17.5.