Conversion Graphs: Plot, Read, and Interpolate with Confidence

Worked example / complete source key

A table converts litres to gallons: 0 L = 0 gal, 10 L = 2.2 gal, 20 L = 4.4 gal, 30 L = 6.6 gal. Plot the graph and estimate 25 L in gallons.

Answer: About 5.5 gallons.

Reason: Plot litres on the x-axis from 0 to 30 and gallons on the y-axis from 0 to 7. The points lie on a straight line. 25 L is halfway between 20 L (4.4 gal) and 30 L (6.6 gal). Halfway in y is (4.4 + 6.6)/2 = 5.5 gal. A proportional check: 25/10 × 2.2 = 5.5 gal.