Misleading graphs

-check the scale on the graph goes up in equal amounts

-scales should start on zero

-sometimes there is missing data

- make sure the right graph is being used.

Year 8 Higher topic 4

Real life graphs

What careers would use these skills?

Architect will calculate the gradient when looking at the pitch of a roof, economist and engineers.

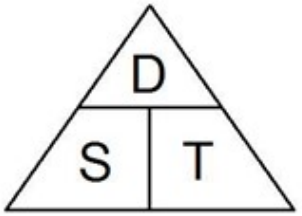
Speed, distance, time calculations

James runs at a speed of 4 miles an hour, he runs for 2 hours, how far does he run?

D = S x T

D = 4 x 2

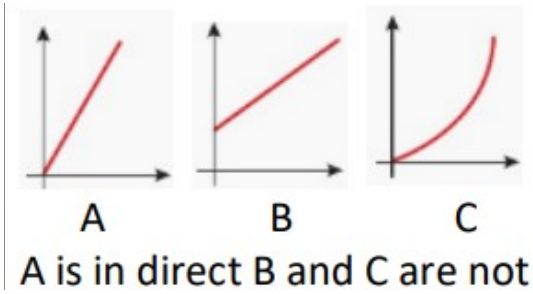
= 8 miles



Direct proportion graphs

- The graph is a straight line that goes though the origin

- If one variable is multiplied by n, so is the other



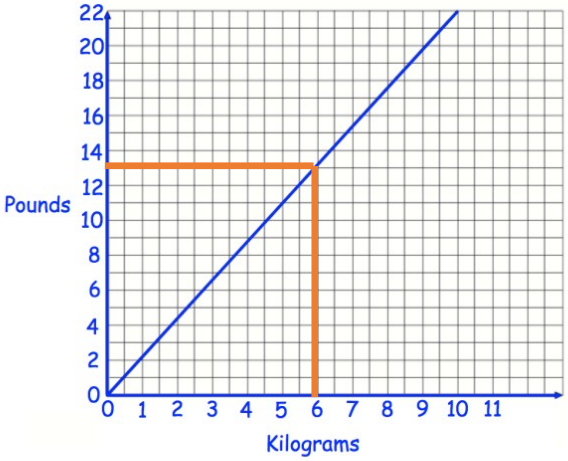
Conversion graphs

This graph can be used to convert between kilograms and pound.

Eg. Convert 6kg to lb.

Draw a line up from 6kg until you hit the graph, then draw a line left and read off the number of pounds.

So 6kg is approximately 13 lb.



Distance time graph example

You can find the speed from the gradient of the line (Distance ÷ Time)

The steeper the line, the quicker the speed.

A horizontal line means the object is not moving, it is stationary.

The y axis shows the distance from the starting point, the first 2 hours on the graph below how an object moving away, the middle 3 hours are when the object is stationary and the last 4 hours show the object moving back to the starting point.