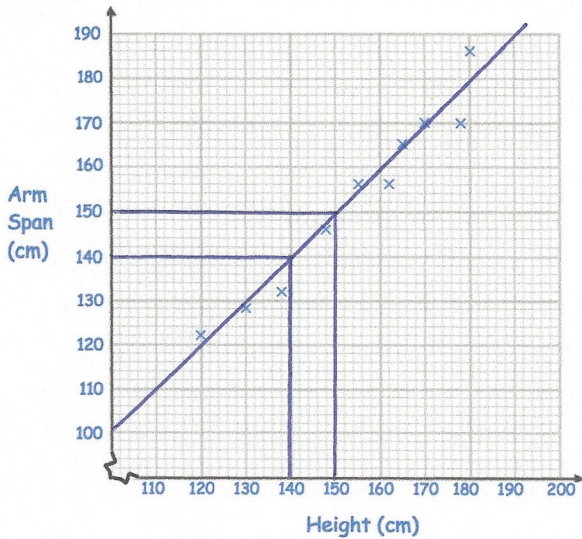


17th October



Corbettmaths



Another student has a height of 150cm.
Estimate the arm span of this student.

150cm

Another student has an arm span of 140cm.
Estimate their height

140cm

The scatter graph shows information about the heights and arm spans of ten students in a school.

Rebecca drove 9 miles in 7 minutes.
Work out her speed, in miles per hour.

$$9 \div 7 = 1.285... \text{ miles per minute}$$

$$77.14286 \text{ mph}$$

A radioactive substance decays over time.
Every year its mass decreases by 14%.

How many years will it take for 500kg of the substance to decay to a mass less than 100kg?

$$500 \times 0.86^x$$

$$x = 10 \quad 110.65$$

$$x = 11 \quad 95.159$$

11 years

Calculate the mass of a piece of metal that has a volume 50cm^3 and density 3.8g/cm^3

$$m = d \times v$$

$$3.8 \times 50 = 190 \text{ g}$$