



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

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

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

9 miles in 7 mins  
1.28... miles in 1 min  
77.14... miles in 1 hour

77.14 mph

A radioactive substance decays over time.  
Every year its mass decreases by 20%.

How many years will it take for 500kg of the substance to decay to a mass less than 10kg?

$$500 \times 0.8^{18} = 9 \text{ kg}$$

18 years

Calculate the mass of a piece of metal that has a volume  $80\text{cm}^3$  and density  $7.45\text{g/cm}^3$

$$d^m$$

$$80 \times 7.45$$

596g