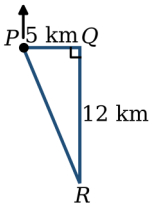
Day 112 **B Tier 10-a-day**

1 £1 = 1.1 dollars
A holiday costs $220.
Work out the cost in pounds.

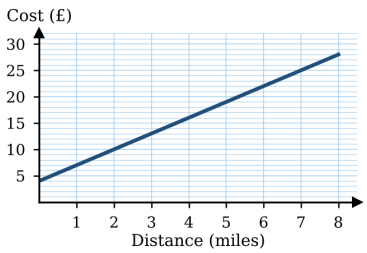
2 (a) Convert 2 m to mm.
(b) Convert 4 litres to cm^3.

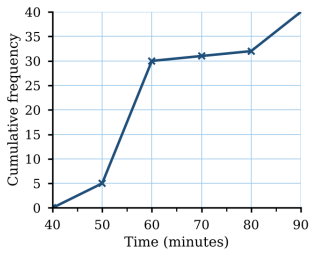
3 Work out the value of 2a + 3b
when a = −2 and b = 7

4 A boat sails 5 km on a bearing of 090° from P to Q, then 12 km on a bearing of 180° to R.
(Calculator)
(a) Work out the distance PR.
(b) Work out the bearing of R from P.
Give your answers correct to 1 decimal place.



5 A taxi firm charges a fixed amount plus a cost for each mile.
The graph shows the total cost.
(a) Write down the fixed charge.
(b) Work out the cost for each mile.



Day 112	B Tier 10-a-day
6 Write these numbers in order of size. Start with the smallest. 2.5×10^2, 4400, 4.5×10^1, 4.4×10^{-5}	
7 Solve $\frac{p}{2} + 6 \leq 11$	
8 Two buses leave a bus station at 09:30. One bus leaves every 24 minutes. The other bus leaves every 15 minutes. At what time do both buses next leave together?	
9 The cumulative frequency graph shows the times taken by 40 students to complete a puzzle. (a) Use the graph to estimate the median. (b) Work out an estimate for the interquartile range. 	
10 The length of a rectangle is 10 cm and its width is 18 cm. Both measurements are correct to the nearest cm. Work out the lower bound for the area of the rectangle.	