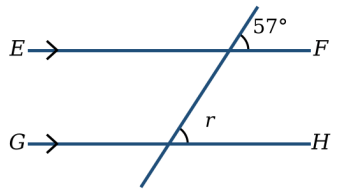
Day 140	B Tier 10-a-day
1 A straight line has equation $y = -2x - 4$ (a) Write down the coordinates of the point where the line crosses the y-axis. (b) Work out the coordinates of the point where the line crosses the x-axis.	
2 £1 = 1.4 dollars A holiday costs $84. Work out the cost in pounds.	
3 In the diagram, EF is parallel to GH. (a) Work out the size of angle r. (b) Give a reason for your answer. The diagram is not drawn accurately. 	
4 Find the (a) highest common factor (HCF), (b) lowest common multiple (LCM) of 10 and 8.	
5 $s = ut + \frac{1}{2}at^2$ Work out the value of s when u = 7, a = 3 and t = 4	

Day 140 **B Tier 10-a-day**

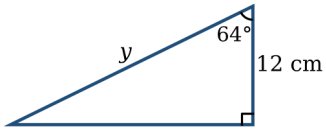
6 A block of ice is a cuboid measuring 4 cm by 7 cm by 7 cm.
The density of ice is 0.9 g/cm^3.
Work out the mass of the block.

7 (a) Write $\frac{39}{50}$ as a decimal.

(b) Write $\frac{5}{6}$ as a recurring decimal.

For part (b), write down the first 8 decimal places and say which digits repeat.

8 Calculate the length of y. (Calculator)
Give your answer correct to 1 decimal place.
The diagram is not drawn accurately.



9 The equation $x^3 + 2x = 39$ has a solution between 3 and 4. (Calculator)
Use trial and improvement to find this solution.
Give your answer correct to 1 decimal place.

10 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.

