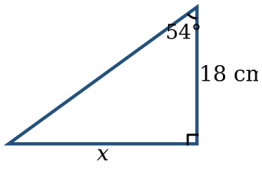
Day 258	B Tier 10-a-day
1 The first term of a sequence is 3. The term-to-term rule is: multiply by 4 and then add 1. Work out the 4th term.	
2 Work out (a) 20% of £180 (b) 80% of 320	
3 A rectangle is 12 m long and 4 m wide. It is enlarged by scale factor 4. (a) Write down the length and width of the enlarged rectangle. (b) Work out the perimeter of the enlarged rectangle.	
4 A is the point (7, −8) and B is the point (−7, −8). Find the coordinates of the midpoint of AB.	
5 Find the length of x. (Calculator) Give your answer correct to 1 decimal place. The diagram is not drawn accurately. 	

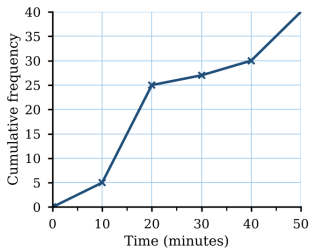
Day 258 **B Tier 10-a-day**

6 Factorise $144 - y^2$

7 Rice is sold in two sizes.
Small: 250 g for £1.02
Large: 500 g for £2.20
Which size is better value for money?
You must show your working.

8 The number x is rounded to the nearest 10.
The result is 150.
Write down the error interval for x.

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 A circle has centre O and radius 15 cm.
AB is a chord and M is the midpoint of AB. OM is perpendicular to AB.
Work out the value of x.
The diagram is not drawn accurately.

