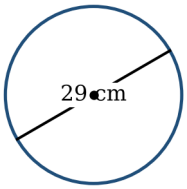
Day 277	B Tier 10-a-day
1 Solve $\frac{y}{4} + 2 > 7$	
2 A right-angled triangle has one angle of 23°. Work out the size of the other acute angle.	
3 A car uses 20 litres of petrol to travel 360 km. Work out how many kilometres it travels on each litre of petrol.	
4 The diagram shows a circle with diameter 29 cm. (Calculator) Work out the area of the circle. Give your answer correct to 1 decimal place. The diagram is not drawn accurately. 	
5 A spacecraft travels at 9×10^4 km per hour. It travels for 4.7×10^3 hours at this speed. Work out how far it travels. Give your answer in standard form.	

Day 277 **B Tier 10-a-day**

6 The bearing of B from A is due south.
(a) Write down the bearing of B from A.
(b) Work out the bearing of A from B.

7 Aisha and Omar share some money in the ratio 9 : 8.
Aisha gets £15 more than Omar.
How much money does Aisha get?

8 Solve $x^2 - 4x - 5 = 0$

9 (a) Write 1.5 hours in hours and minutes.
(b) Write 3 hours 15 minutes as a decimal number of hours.

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.

