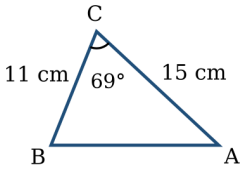
Day 48	A Tier 10-a-day
1 Solve $5(x + 5) = 4(x + 6) + 10$	
2 The ratio of adults to children in a swimming pool is 1 : 5. There are 56 more children than adults. Work out the number of adults.	
3 Work out $5\frac{2}{3} \times 3\frac{1}{2}$ Give your answer as a mixed number in its simplest form.	
4 Change 250000 cm^2 to m^2.	
5 By rounding each number to 1 significant figure, estimate the value of $\frac{29.3 + 3.2}{0.51}$	

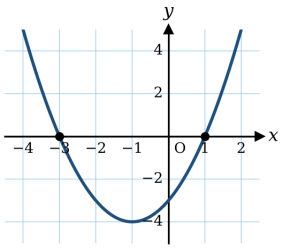
Day 48 **A Tier 10-a-day**

6 A van travels for 1 hour at 75 km/h, then for 1 hour 30 minutes at 70 km/h.
Work out the average speed for the whole journey.

7 Work out the area of triangle ABC. (Calculator)
Give your answer to 3 significant figures.
The diagram is not drawn accurately.



8 The diagram shows the graph of $y = x^2 + bx + c$.
Find the value of b and the value of c.



9 (a) Write down all the prime numbers between 50 and 68.
(b) Write 187 as the product of two prime numbers.

10 Boat P sails 13 miles from a harbour on a bearing of 250°.
Boat Q sails 22 miles from the same harbour on a bearing of 285°. (Calculator)
Work out the distance between the two boats.
Give your answer to 3 significant figures.