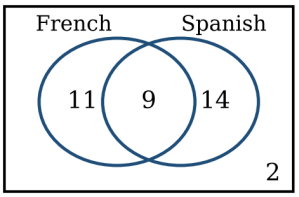
Day 8	A Tier 10-a-day
1 Make a the subject of $b = 3a - 6$	
2 A garden has a straight fence. A tree is planted so that it is always 5 m from the fence. A point T on a plan is 5 m from the fence, on either side. Describe the locus of T.	
3 Solve $\frac{5x - 2}{4} = \frac{3x + 4}{5}$	
4 M is the midpoint of AB. A is the point $(-5, 0)$ and M is the point $(-5, 2)$. Work out the coordinates of B.	
5 A rectangle has length 21 cm and width 12 cm. Each measurement is correct to the nearest cm. Work out the upper bound for the area of the rectangle.	

Day 8	A Tier 10-a-day
6 The Venn diagram shows information about 36 people. One person is chosen at random. (a) Find the probability that the person is in both French and Spanish. (b) Find the probability that the person is in French or Spanish or both.  	
7 The price of a product increases by 25% each year for 2 years. Work out the overall percentage increase over the 2 years.	
8 Grace invests £5000 in a savings account. (Calculator) The account pays compound interest at a fixed rate each year. After 2 years there is £5408 in the account. Work out the annual rate of interest.	
9 The value of a house increases by 10% each year. (Calculator) After 3 years it is worth £49,247. Work out its value at the start.	
10 Boat P sails 8 miles from a harbour on a bearing of 255°. Boat Q sails 18 miles from the same harbour on a bearing of 145°. (Calculator) Work out the distance between the two boats. Give your answer to 3 significant figures.	