Day 16	B Tier 10-a-day
1 (a) Mohammed scores 101 out of 200 in a test. Write this as a percentage. (b) Write 70p as a percentage of £10.	
2 (a) Convert 12.5 kg to g. (b) Convert 8 litres to cm^3.	
3 Solve $\frac{2x + 12}{5} = 4$	
4 Write down all the common factors of 28 and 63.	
5 Solve $2x - 1 = 4$ Give your answer as a fraction in its simplest form.	

Day 16	B Tier 10-a-day
6 33 households were asked. 17 of them have a cat and 16 of them have a dog. 9 of them did both. (a) How many did neither? (b) One is chosen at random. Find the probability that they have a cat but do not have a dog.	
7 The mass of a parcel is 16.9 kg, correct to 1 decimal place. Write down the error interval for the mass. Use the letter m.	
8 The probability that Amy is late for school on any day is 0.4. The probability that Ben is late on any day is 0.6. Whether each is late is independent of the other. Work out the probability that at least one of them is late on Monday.	
9 Solve $x^2 + 7x - 8 = 0$	
10 A circle has centre O and radius 13 m. (Calculator) AB is a chord and M is the midpoint of AB. OM is perpendicular to AB. Work out the value of x. Give your answer correct to 1 decimal place. The diagram is not drawn accurately. 	