Day 237	B Tier 10-a-day
1 Work out (a) $\frac{8}{9} + \frac{1}{4}$ (b) $\frac{5}{6} - \frac{1}{4}$ Give each answer in its simplest form.	
2 (a) Convert 12 500 ml to litres. (b) Convert 1500 cm^3 to litres.	
3 Here are Amy's and Priya's daily sales. Amy: 36, 40, 52, 54, 52 Priya: 47, 46, 49, 43, 47 Compare their results using the mean and the range.	
4 M is the midpoint of AB. A is the point (5, −1) and M is the point (5, 0). Find the coordinates of B.	
5 In a room, the ratio of small boxes to large boxes is 4 : 5. There are 40 large boxes. More small boxes join so that there are equal numbers of small boxes and large boxes. How many small boxes join?	

Day 237	B Tier 10-a-day
6 (a) Write $\frac{23}{40}$ as a decimal. (b) Write $\frac{1}{12}$ as a recurring decimal. For part (b), write down the first 8 decimal places and say which digits repeat.	
7 Make a the subject of the formula F = ma	
8 In triangle ABC, AB = 8 cm, BC = 6 cm and angle ABC = 75°. (Calculator) Work out the area of the triangle. Give your answer correct to 1 decimal place.	
9 Two lights flash at 11:30. One light flashes every 20 minutes. The other light flashes every 12 minutes. At what time do both lights next flash together?	
10 A coach travels at 50 km/h for 3 hours and then at 36 km/h for 1 hour. Work out its average speed for the whole journey.	