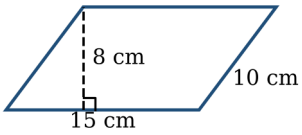
Day 332	B Tier 10-a-day
1 Work out the area of the parallelogram. The diagram is not drawn accurately.  	
2 Here are the temperatures at noon in a town. 9, 9, 16, 18, 26, 22, 12, 7, 29 (a) Find the median. (b) Work out the range.	
3 A box is a cuboid measuring 18 cm by 15 cm by 12 cm. Small cubes of side 3 cm are packed into the box. How many small cubes fit in the box with no gaps?	
4 The nth term of a sequence is $6n - 2$ (a) Work out the 9th term. (b) Is 103 a term in the sequence? You must show how you get your answer.	
5 Work out $2\frac{3}{8} - 1\frac{1}{2}$ Give your answer as a fraction in its simplest form.	

Day 332	B Tier 10-a-day
6 A is the point (3, 9) and B is the point (7, −1). Find the coordinates of the midpoint of AB.	
7 In a bag of counters, the ratio of green to white is 1 : 4. The ratio of white to blue is 1 : 8. Write down the ratio green : white : blue.	
8 A water tank is $\frac{2}{5}$ full. 38 litres of water are added. The water tank is now $\frac{3}{5}$ full. Work out the capacity of the water tank.	
9 A is the point (4, 1) and B is the point (0, −2). (a) Work out the coordinates of the midpoint of AB. (b) Work out the length of AB.	
10 A rectangle has length (x + 5) cm and width (x − 1) cm. The area of the rectangle is 91 cm^2. (a) Show that $x^2 + 4x - 96 = 0$ (b) Hence work out the length of the rectangle.	