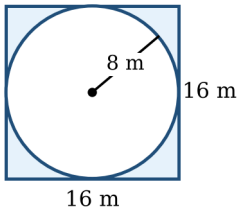
Day 298	B Tier 10-a-day
1 Use the fact that 38 × 17 = 646 to work out (a) 3800 × 170 (b) 64,600 ÷ 38	
2 Jo has x marbles. Ben has 4 more marbles than Jo. Cara has 2 times as many marbles as Jo. (a) Write an expression, in terms of x, for the number of marbles Ben has. (b) Write an expression, in terms of x, for the total number of marbles the three of them have. Give your answer in its simplest form.	
3 Write the ratio £1 : 50p in its simplest form.	
4 Expand and simplify 4(x + 6) + 3(x + 5)	
5 The exchange rate is £1 = €1.16. (Calculator) (a) Change £60 to euros. (b) Change €185.6 to pounds (£).	

Day 298	B Tier 10-a-day
6 A shape is made from a rectangle and a semicircle. (Calculator) The rectangle is 28 cm wide and 7 cm high. The diameter of the semicircle is 28 cm. (a) Work out the area of the shape. (b) Work out the perimeter of the shape. Give each answer correct to 1 decimal place.	
7 Work out $(2.5 \times 10^7) \times (7 \times 10^4)$ Give your answer in standard form.	
8 A car travels 90 km in 2 hours 15 minutes. Work out its average speed in km per hour.	
9 The diagram shows a square of side 16 m with a circle of radius 8 m cut out. The circle is in the centre of the square. Work out the area of the shaded region. Give your answer in terms of π. The diagram is not drawn accurately. 	
10 Simplify fully (a) $12y^8 \div 4y^4$ (b) $p^5 \times p^8$	