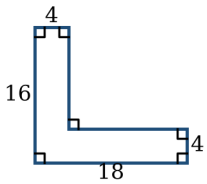
Day 314	B Tier 10-a-day
1 Write down all the common factors of 12 and 18.	
2 The diagram shows the shape of a kitchen floor. All the corners are right angles. All lengths are in m. (a) Calculate the perimeter. (b) Calculate the area.  	
3 A metal block has a density of 2.7 g/cm^3 and a volume of 100 cm^3. Work out its mass.	
4 Estimate the value of 2.03 × 76.4 + 0.221 Show your rounding to 1 significant figure.	
5 A rectangular pond is 10 m by 13 m. There is a path of width 2 m all the way round the outside of the pond. Work out the area of the path.	

Day 314	B Tier 10-a-day
6 Solve $24 - 4x = 2x$	
7 A triangular prism has a right-angled triangle as its cross-section. The two shorter sides of the triangle are 6 cm and 11 cm. The length of the prism is 12 cm. Work out the volume of the prism.	
8 Town A has a population of 5,000. Its area is 25 km^2. Work out the population density. Give your answer in people per km^2.	
9 Here is an iteration formula. $x_{n+1} = 6 + \frac{20}{x_n}$ $x_0 = 5$ (a) Work out x_1 (b) Work out x_2. Give your answer correct to 3 decimal places. (Calculator)	
10 Show that $(n + 5)(n + 6) - n(n + 11)$ has the same value for every whole number n.	