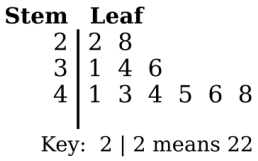
Day 264	B Tier 10-a-day
1 Work out (a) $-7-(-5)$ (b) $(-4)\times(-3)$	
2 The ratio of cats to dogs at a vets is 1 : 7. What fraction of them are cats?	
3 Owen scores 16 out of 60 in a test. Write his score as a fraction in its simplest form.	
4 The stem and leaf diagram shows 11 values. (a) Find the median. (b) Work out the range.  	
5 (a) Convert 750 kg to tonnes. (b) Convert 5000 cm^3 to litres.	

Day 264	B Tier 10-a-day
6 Solve $6n + 10 = 2n - 14$	
7 Triangle XYZ is isosceles with XY = XZ = 20 cm. The base YZ = 24 cm. (a) Work out the perpendicular height of the triangle. (b) Work out the area of the triangle.	
8 Matchsticks are used to make a row of squares. 1 square needs 4 matchsticks, 2 squares need 7 and 3 squares need 10. (a) Find an expression, in terms of n, for the number of matchsticks needed for n squares. (b) Dan uses 76 matchsticks to make a row. How many squares are in his row?	
9 The length of a rectangle is 34 cm and its width is 10 cm. Both measurements are correct to the nearest cm. Work out the lower bound for the area of the rectangle.	
10 A cone has base radius 6 m and vertical height 12 m. Volume of a cone = $\frac{1}{3}\pi r^2 h$ Work out the volume of the cone. Give your answer in terms of π.	