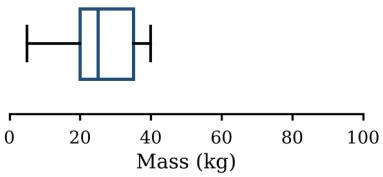
Day 155	A Tier 10-a-day
1 Convert 0.45 m^2 into cm^2.	
2 The box plot shows the masses, in kg, of the parcels in delivery A. (a) Write down the median and the interquartile range. For delivery B the median is 40 and the interquartile range is 5. (b) Compare the distributions of the two deliveries. 	
3 The area of a circle is 196π cm^2. (a) Work out the radius of the circle. (b) Work out the circumference. Give your answer in terms of π.	
4 5 burgers and 3 milkshakes cost £60. 2 burgers and 1 milkshake cost £23. Work out the cost of one burger.	
5 In a school, 40% of the students are boys. (Calculator) 30% of the boys and 60% of the girls walk to school. What percentage of all the students walk to school?	

Day 155	A Tier 10-a-day
6 The population of a town is 40000. (Calculator) It increases by 8% each year. Work out the population after 3 years. Give your answer to the nearest whole number.	
7 Rationalise the denominator of $\frac{5}{5\sqrt{2}}$ Give your answer in its simplest form.	
8 Expand and simplify $(x - 1)(3x + 4)(x + 5)$	
9 Isla invests £4000 in a savings account. (Calculator) The account pays compound interest at a fixed rate each year. After 2 years there is £4840 in the account. Work out the annual rate of interest.	
10 Write as a single fraction in its simplest form $\frac{x-1}{3} - \frac{x+2}{5}$	