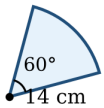
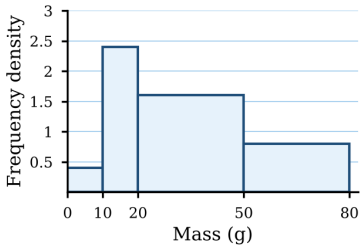
Day 245	A Tier 10-a-day
1 £1 = €1.35. (a) Change £220 to euros. (b) Change €243 to pounds.	
2 The diagram shows a sector of a circle of radius 14 cm. Work out the area of the sector. Give your answer in terms of π. The diagram is not drawn accurately. 	
3 Priya earns £16000 a year. She pays no tax on the first £10000. She pays 20% tax on the rest. Work out how much tax she pays in a year.	
4 Solve $3x^2 - x - 4 = 0$	
5 The number of visitors to a museum was 120 and is now 114. Work out the percentage decrease.	

Day 245	A Tier 10-a-day
6 Shape A has an area of 14 cm^2. Shape A is enlarged by scale factor 5 to give shape B. Work out the area of shape B.	
7 (a) Solve $16 < 5x + 6 < 46$ (b) Write down all the integer values of x that satisfy this inequality.	
8 The histogram shows information about the mass of some items. (a) Work out the number of items with a mass in the class 0 to 10 g. (b) Work out an estimate for the number with a mass greater than 35 g. 	
9 A metal block has mass 320 g and volume 153 cm^3. The mass is measured to the nearest 10 grams and the volume to the nearest cm^3. (Calculator) Work out the lower bound for the density of the metal in g/cm^3. Give your answer correct to 3 significant figures.	
10 A is the point (5, 4) and B is the point (3, −4). Find the equation of the perpendicular bisector of AB.	