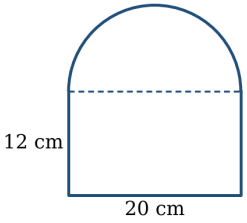
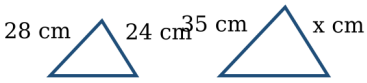
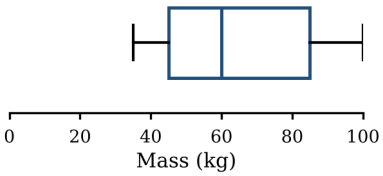
Day 5	A Tier 10-a-day
1 £1 = €1.25. (a) Change £340 to euros. (b) Change €300 to pounds.	
2 A straight line passes through the points (1, 5) and (3, 13). Find the equation of the line.	
3 The diagram shows a shape made from a rectangle and a semicircle. Work out the area of the shape. Give your answer in terms of π. The diagram is not drawn accurately. 	
4 Work out $(1\frac{2}{5} + 3\frac{2}{3}) \div 2\frac{2}{3}$ Give your answer as a mixed number in its simplest form.	
5 The two triangles are similar. Work out the value of x. The diagrams are not drawn accurately. 	

Day 5	A Tier 10-a-day
6 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 70 and the interquartile range is 50. (b) Compare the distributions of the two deliveries.  	
7 Here are four fractions: $\frac{6}{9}$ $\frac{3}{4}$ $\frac{10}{32}$ $\frac{12}{15}$ Which one of these fractions is equal to a recurring decimal?	
8 A triangle has sides of length 10 cm, 24 cm and 26 cm. Is the triangle right-angled? You must show your working.	
9 The point P(8, 6) lies on a circle with centre O(0, 0). (a) Work out the equation of the circle, in the form $x^2 + y^2 = r^2$. (b) Find the equation of the tangent to the circle at P.	
10 (a) A flight takes off at 0620. The journey takes 2 hours 56 minutes. Work out the time it ends. (b) Change 150 minutes into hours. Give your answer as a decimal.	