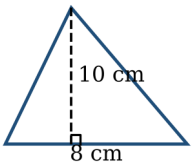
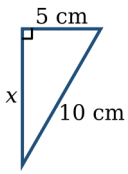
Day 14	B Tier 10-a-day
1 The temperature in a freezer is −8°C. (a) The temperature rises by 9°C. Work out the new temperature. (b) The highest temperature one day was 6°C and the lowest was −3°C. Work out the difference.	
2 In a survey, 20 people chose rugby. There were 180 people in the survey altogether. The results are shown in a pie chart. Work out the angle for rugby.	
3 This is a triangle. Find the area of the triangle. The diagram is not drawn accurately. 	
4 (a) Solve $-1 < 4x + 3 \leq 11$ (b) Write down the integer values of x that satisfy this inequality.	
5 Find the length of x. (Calculator) Give your answer correct to 1 decimal place. The diagram is not drawn accurately. 	

Day 14	B Tier 10-a-day
6 Write these numbers in order of size. Start with the smallest. 4.2×10^0, 8700, 8.8×10^5, 700	
7 Show that the sum of 9 consecutive whole numbers is always a multiple of 9.	
8 Maya invests £200 in an account paying 10% compound interest per year. (Calculator) Work out the value of her investment after 2 years.	
9 In a sale, the price of a sofa is reduced by 10%. (Calculator) Two weeks later it is reduced by a further 20% of the new price. The final price is £90. Work out the original price of the sofa.	
10 A theme park sells adult tickets and child tickets. 2 adult tickets and 3 child tickets cost £50. 3 adult tickets and 3 child tickets cost £60. Work out the cost of one adult ticket and the cost of one child ticket.	