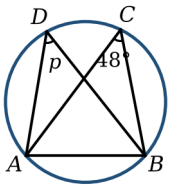
Day 246	B Tier 10-a-day
1 The temperature in a freezer is −5°C. (a) The temperature rises by 10°C. Work out the new temperature. (b) The highest temperature one day was 9°C and the lowest was −4°C. Work out the difference.	
2 Write the ratio 4 : 24 in the form 1 : n	
3 Make b the subject of the formula P = 4a + 2b	
4 A plane travels on a bearing of 050°. It then turns left through 120° and continues in a straight line. Work out the new bearing.	
5 Write 700 as a product of its prime factors. Give your answer in index form.	

Day 246	B Tier 10-a-day
6 A prism has volume 310 cm^3. The area of its cross-section is 31 cm^2. Work out the length of the prism.	
7 Will's rent goes up by 30%. (Calculator) The new rent is £1040 a month. Work out the rent before the increase.	
8 £1,500 is invested for 2 years at 6% compound interest per year. (Calculator) Work out the total interest earned.	
9 A, B, C and D are points on a circle. Angle ACB = 48°. Work out the size of angle ADB, marked p. Give a reason for your answer. The diagram is not drawn accurately. 	
10 Show that (n + 8)(n + 2) − n(n + 10) has the same value for every whole number n.	