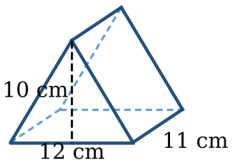
Day 32	B Tier 10-a-day
1 The probability that Dev wins a game of chess is 0.95. Work out the probability that Dev does not win a game of chess.	
2 (a) Write 7:05 pm using the 24-hour clock. (b) Write 17:05 using am or pm.	
3 Juice is sold in two sizes. Small: 400 ml for £2.32 Large: 600 ml for £3.24 Which size is better value for money? You must show your working.	
4 An isosceles triangle has two equal sides of length $(x + 2)$ cm and a third side of length $(x - 2)$ cm. The perimeter of the triangle is 17 cm. Work out the value of x.	
5 Write these numbers in order of size. Start with the smallest. 8.2×10^{0}, 550,000, 6.5×10^{-5}, 8600	

Day 32	B Tier 10-a-day
6 The diagram shows a prism. Its cross-section is an isosceles triangle. Calculate the volume of the prism. The diagram is not drawn accurately.  	
7 Solve $20 - 3x = 4x - 8$	
8 Triangle ABC is isosceles with AB = AC = 5 cm. The base BC = 6 cm. (a) Work out the perpendicular height of the triangle. (b) Work out the area of the triangle.	
9 After 5 tests, Tara's mean mark is 58. After her next test, her mean mark is 60. What mark did she get in her next test?	
10 Solve the simultaneous equations $4x + 2y = 12$ $3x - 4y = 20$	