Day 5	B Tier 10-a-day
1 Write 1102.8035 (a) correct to 2 decimal places, (b) correct to 3 significant figures.	
2 A car travels 108 km in 2 hours 15 minutes. Work out its average speed in km per hour.	
3 Solve $7n + 8 \leq 29$	
4 Write down the number of faces, edges and vertices of a triangular-based pyramid.	
5 Work out (a) $\sqrt[3]{8} \times 7$ (b) the square root of 49	

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6 A triangle has sides of length 17 cm, 8 cm and 15 cm. Is the triangle right-angled? You must show your working.	
7 30 adults were asked. 10 of them like tea and 17 of them like coffee. 4 of them did both. (a) How many did neither? (b) One is chosen at random. Find the probability that they like tea but do not like coffee.	
8 Work out (a) 75% of £300 (b) 20% of 40	
9 A cone has base radius 2 cm and vertical height 8 cm. (Calculator) Volume of a cone = $\frac{1}{3}\pi r^2 h$ Work out the volume of the cone. Give your answer correct to 1 decimal place.	
10 Show that $(n + 2)^2 - (n - 2)^2$ is a multiple of 8 for any whole number n.	