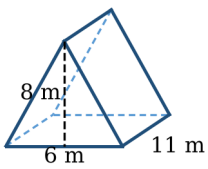
Day 72	B Tier 10-a-day
1 Write down the number of faces, edges and vertices of a square-based pyramid.	
2 (a) Change 7 km to m. (b) Change 2770 cm to m.	
3 A triangle has sides of length (4x + 2) cm, (x − 2) cm and (4x + 4) cm. Write down an expression, in terms of x, for the perimeter of the triangle. Give your answer in its simplest form.	
4 Electricity costs 12p per unit. There is also a standing charge of £8. Work out the total bill for 200 units.	
5 Here is a prism. Its cross-section is an isosceles triangle. Work out the volume of the prism. The diagram is not drawn accurately. 	

Day 72	B Tier 10-a-day
6 3 pumps take 12 minutes to empty a pool. All the pumps work at the same rate. How long would it take 2 pumps?	
7 A point P is always exactly 8 km from a radio transmitter, L. Describe the locus of the point P.	
8 There are 4.6×10^6 bacteria in a dish. The number doubles every day. How many are there after 4 days? Give your answer in standard form.	
9 I think of a number. I divide it by 5 and then add 2. The answer is 5. Work out my number.	
10 Here are the first four terms of a sequence. 4, 6, 10, 16 (a) Write down the next two terms. (b) Describe the rule for continuing the sequence.	