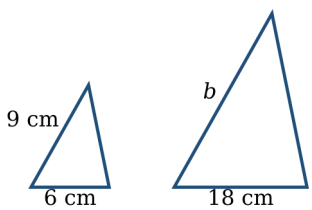
Day 212	B Tier 10-a-day
1 Here is a list of numbers. 57, 12, 84, 94, 24, 18, 20, 41 From the list, write down (a) a multiple of 7 (b) an odd number that is not prime	
2 A pencil costs p pence. A pen costs 30 pence more than a pencil. (a) Write an expression, in terms of p, for the cost of a pen. (b) Write an expression, in terms of p, for the total cost of 3 pencils and 3 pens. Give your answer in its simplest form.	
3 Amy types at 60 words per minute. (a) How many words does Amy type in 8 minutes? (b) How long does Amy take to type 1440 words?	
4 What fraction of £4.50 is 30p? Give your answer in its simplest form.	
5 The two triangles are similar. (a) Write down the scale factor of the enlargement from the smaller triangle to the larger triangle. (b) Work out the value of b. The diagram is not drawn accurately. 	

Day 212	B Tier 10-a-day
6 Mohammed is paid £10 per hour for a 37 hour week. (Calculator) Overtime is paid at time and a half. In one week he works 3 hours of overtime. Work out his total pay for that week.	
7 An isosceles trapezium has parallel sides of length 21 cm and 5 cm. Each sloping side is 10 cm long. (a) Work out the perpendicular height of the trapezium. (b) Work out the area of the trapezium.	
8 Chloe earns £12 per hour for the first 35 hours worked each week. Any extra hours are paid at double time. Last week Chloe worked 43 hours. Work out Chloe's total pay for last week.	
9 A prism has volume 195 m^3. The area of its cross-section is 39 m^2. Work out the length of the prism.	
10 Factorise $x^2 - 12x + 32$	