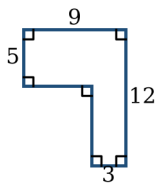
Day 45	B Tier 10-a-day
1 Find the (a) highest common factor (HCF), (b) lowest common multiple (LCM) of 49 and 28.	
2 The diagram shows the shape of a garden. All the corners are right angles. All lengths are in m. (a) Find the perimeter. (b) Find the area. 	
3 The first term of a sequence is 3. The term-to-term rule is: double the term, then add 2. Work out the 5th term.	
4 The exchange rate is £1 = $1.25. (Calculator) (a) Change £300 to dollars. (b) Change $250 to pounds (£).	
5 The scale of a map is 1 : 20,000. Two villages are 5 km apart. How far apart are they on the map? Give your answer in centimetres.	

Day 45	B Tier 10-a-day
6 The angles of a triangle are x°, 3x° and (3x + 26)°. Work out the size of the largest angle.	
7 The price of a laptop is £160. The price is first increased by 5%, then the new price is increased by 30%. (a) Work out the final price. (b) Work out the overall percentage increase in the price.	
8 Show that the sum of two consecutive odd numbers is always a multiple of 4.	
9 Triangle PQR is isosceles with PQ = PR = 11 cm. (Calculator) The base QR = 10 cm. Work out the size of angle PQR. Give your answer correct to 1 decimal place.	
10 A bag contains 7 mint sweets and 2 toffee sweets. Callum takes one at random and does not replace it, then takes a second. Work out the probability that both are mint.	