Day 75	B Tier 10-a-day
1 Mohammed buys 2 sandwiches at £2.15 each and 3 pens at £1.75 each. He pays with a £10 note. Work out how much change he gets.	
2 The first term of a sequence is 3. The term-to-term rule is: double the term, then add 4. Work out the 5th term.	
3 In a pie chart showing the answers of 36 people, the angle for walk is 60°. How many people chose walk?	
4 A tin of beans has radius 8 m and height 15 m. Work out its volume. Give your answer in terms of π.	
5 Factorise $y^2 - 4y$	

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6 Town A has a population of 2,000. Its area is 8 km^2. Work out the population density. Give your answer in people per km^2.	
7 The price of a laptop is £40. The price is first reduced by 5%, then the new price is reduced by 20%. (a) Work out the final price. (b) Work out the overall percentage decrease in the price.	
8 AB is a straight fence 4 m long. A path is always exactly 1 m from the fence AB, on both sides, and also goes round each end. Describe the shape of the path.	
9 Show that the sum of three consecutive even numbers is always a multiple of 6.	
10 F is directly proportional to m. When m = 12, F = 9. Find the value of m when F = 5.25.	