Day 17	B Tier 10-a-day
1 The probability that a train is on time is 10%. Work out the probability that a train is not on time.	
2 A regular pentagon has 5 sides. (a) Work out the size of one exterior angle. (b) Work out the size of one interior angle.	
3 Region D has a population density of 250 people per km^2. Its area is 4 km^2. Work out its population.	
4 (a) Ivan scores 106 out of 125 in a test. Write this as a percentage. (b) Write £1.90 as a percentage of £10.	
5 A triangle has sides of length 6 mm, 10 mm and 8 mm. Is the triangle right-angled? You must show your working.	

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6 Write each number as an ordinary number. (a) 8.4×10^5 (b) 4.4×10^{-3}	
7 Solve $15 - 4x = 5x - 21$	
8 A TV screen is a rectangle 80 cm wide and 60 cm high. Work out the length of the diagonal of the screen.	
9 There are 3.9×10^6 bacteria in a dish. The number doubles every day. How many are there after 4 days? Give your answer in standard form.	
10 Here is an iteration formula. $x_{n+1} = \sqrt{5x_n + 16}$ $x_0 = 4$ (a) Work out x_1 (b) Work out x_2. Give your answer correct to 3 decimal places. (Calculator)	