Day 25	B Tier 10-a-day
1 A car travels 192 km in 2 hours. Work out its average speed in km per hour.	
2 Triangle XYZ is isosceles with XY = XZ. Angle XYZ = 29°. Work out the size of angle YXZ.	
3 Work out (a) $\frac{1}{4} + \frac{4}{9}$ (b) $\frac{3}{4} - \frac{2}{3}$ Give each answer in its simplest form.	
4 A tractor travels at a constant speed of 12 km/h for 40 minutes. How far does it travel?	
5 A straight line has gradient -1 and passes through the point (2, 3). Find the equation of the line.	

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6 After 4 tests, Tara's mean mark is 73. After her next test, her mean mark is 76. What mark did she get in her next test?	
7 Work out the sum of the interior angles of an octagon.	
8 Solve the simultaneous equations $x - 2y = -10$ $4x + y = -4$	
9 The price of a laptop is £100. The price is first increased by 25%, then the new price is increased by 20%. (a) Work out the final price. (b) Work out the overall percentage increase in the price.	
10 In a sale, the price of a sofa is reduced by 25%. (Calculator) Two weeks later it is reduced by a further 20% of the new price. The final price is £240. Work out the original price of the sofa.	