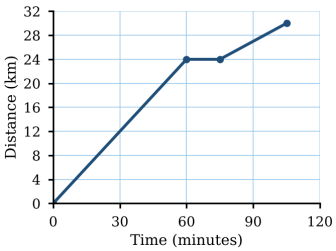
Day 96	B Tier 10-a-day
1 Write 132 as a product of its prime factors. Give your answer in index form.	
2 The graph shows Jack's journey. (a) For how many minutes did Jack stop? (b) Work out Jack's speed in the first 60 minutes. Give your answer in km/h.  	
3 The angles in a triangle are x°, 2x° and (x + 20)°. (a) Work out the value of x. (b) Work out the size of the largest angle.	
4 Solve 4(2x + 5) = 52	
5 Triangle XYZ is isosceles with XY = XZ = 9 cm. (Calculator) The base YZ = 8 cm. Work out the size of angle XYZ. Give your answer correct to 1 decimal place.	

Day 96	B Tier 10-a-day
6 Work out (a) 2^{-1} (b) $11^0 + \sqrt{25}$	
7 Triangle XYZ is isosceles with XY = XZ = 10 cm. The base YZ = 16 cm. (a) Work out the perpendicular height of the triangle. (b) Work out the area of the triangle.	
8 Solve the simultaneous equations $2x - 4y = 24$ $2x + 2y = 6$	
9 In a sale, the price of a sofa is reduced by 10%. (Calculator) Two weeks later it is reduced by a further 10% of the new price. The final price is £121.50. Work out the original price of the sofa.	
10 In a room, the ratio of boys to girls is 5 : 8. There are 64 girls. More boys join so that there are equal numbers of boys and girls. How many boys join?	