Day 6 **B Tier 10-a-day**

1 Tom buys 4 notebooks at £1.50 each and 2 sandwiches at £1.35 each.
He pays with a £50 note.
Work out how much change he gets.

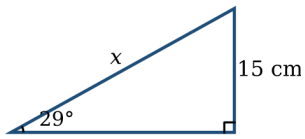
2 (a) Convert 6 km to m.
(b) Convert 5 m^3 to cm^3.

3 Write 84 as a product of its prime factors.
Give your answer in index form.

4 A photographer charges £34 plus £7 for each hour of a wedding.
(a) Work out the total cost for 7 hours.
(b) The total cost is £139. Work out the number of hours.

5 The table shows the shoe sizes of students in a class.
Work out the mean.

Shoe size	**6**	**7**	**8**	**9**	**10**
Frequency	6	4	4	6	5

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6 Simplify $3x - y + 4x + 5y$	
7 Write these numbers in order of size. Start with the smallest. 2.3×10^{6}, 66,000, 4.7×10^{-3}, 2.9×10^{-5}	
8 Find the length of x. (Calculator) Give your answer correct to 1 decimal place. The diagram is not drawn accurately. 	
9 A lorry travels at 60 km/h for 0.5 hours and then at 72 km/h for 2.5 hours. Work out its average speed for the whole journey.	
10 A scooter travels 90 km at an average speed of 30 km/h. How long does the journey take? Give your answer in hours and minutes.	