Day 289	B Tier 10-a-day
1 Write the ratio £20 : 750p in its simplest form.	
2 Expand and simplify $5(x - 2) + 2(x + 4)$	
3 A football match starts at 3:45 pm. It lasts 1 hour 50 minutes. At what time does it finish? Give your answer using am or pm.	
4 Solve $3n + 6 = n + 20$	
5 Two fair dice, numbered 1 to 4 and 1 to 4, are rolled. Work out the probability that the difference between the two scores is 2.	

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6 A straight line has equation $y = -5x + 20$ (a) Write down the coordinates of the point where the line crosses the y-axis. (b) Work out the coordinates of the point where the line crosses the x-axis.	
7 The price of a laptop is £250. The price is first increased by 10%, then the new price is increased by 30%. (a) Work out the final price. (b) Work out the overall percentage increase in the price.	
8 The circumference of a circle is 6π cm. Work out the radius of the circle.	
9 A motorbike travels at 81 km/h. Work out its speed in metres per second.	
10 In the diagram, PQ is parallel to RS. (a) Work out the size of angle r. (b) Give a reason for your answer. The diagram is not drawn accurately. 	