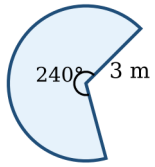
Day 81	B Tier 10-a-day
1 Zara buys 2 sandwiches at 30p each and 3 magazines at £1.65 each. She pays with a £50 note. Work out how much change she gets.	
2 PQRS is an isosceles trapezium with PQ parallel to SR. Angle SPQ = 76°. (a) Write down the size of angle PQR. (b) Work out the size of angle PSR.	
3 Here are the amounts needed to make flapjacks for 2 people. 90 g of oats, 60 g of butter Work out the amounts needed to make flapjacks for 7 people.	
4 Work out (a) $\frac{5}{9} + \frac{5}{8}$ (b) $\frac{8}{9} - \frac{7}{12}$ Give each answer in its simplest form.	
5 A straight line has equation $y = -5x + 6$ (a) Write down the gradient of the line. (b) Write down the equation of a line that is parallel to this line and passes through the point (0, 1).	

Day 81	B Tier 10-a-day
6 Work out $(2.9 \times 10^5) \times (6 \times 10^7)$ Give your answer in standard form.	
7 The diagram shows a sector of a circle with radius 3 m and angle 240°. Work out the area of the sector. Give your answer in terms of π. The diagram is not drawn accurately. 	
8 A lorry travels at 30 km/h for 2 hours and then at 72 km/h for 1 hour. Work out its average speed for the whole journey.	
9 Show that $5(2n + 3) + 5(2n + 13)$ is always a multiple of 20, where n is a whole number.	
10 An isosceles trapezium has parallel sides of length 12 m and 6 m. Each sloping side is 5 m long. (a) Work out the perpendicular height of the trapezium. (b) Work out the area of the trapezium.	