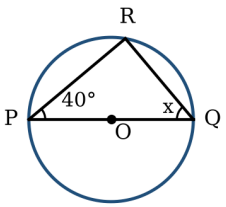
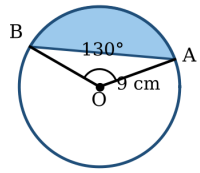
Day 301	A Tier 10-a-day
1 Solve the simultaneous equations $-3x + 2y = -18$ $2x + 4y = -4$	
2 No tax is paid on the first £11,000 of income. Tax of 25% is paid on the next £35,000. Tax of 35% is paid on all income above £46,000. (Calculator) Aisha earns £54,500 a year. Work out the income tax paid.	
3 PQ is a diameter of the circle. Angle QPR = 40°. Work out the size of angle x. Give a reason for each step of your working. 	
4 Solve $6x^2 + 7x - 3 = 0$	
5 t = 870 is rounded to the nearest 10. Write down the error interval for t.	

Day 301	A Tier 10-a-day
6 The curve C has equation $y = x^2 + 2x - 8$ (a) Find the coordinates of the points where C crosses the x-axis. (b) Find the coordinates of the turning point of C.	
7 Harry and Dev each invest £5000 for 2 years. (Calculator) Harry's account pays 4% simple interest per year. Dev's account pays 4% compound interest per year. Work out how much more interest Dev earns than Harry.	
8 The diagram shows a circle with centre O and radius 9 cm. Angle AOB = 130°. (Calculator) Work out the area of the shaded segment. Give your answer to 3 significant figures. 	
9 Change 2400 cm^3 to litres.	
10 Work out the size of angle x. (Calculator) Give your answer to 1 decimal place. The diagram is not drawn accurately. 