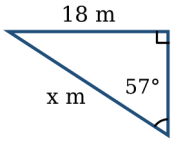
Day 357	A Tier 10-a-day
1 A circular pond has diameter 18 m. Work out, in terms of π, (a) the circumference, (b) the area.	
2 The price of a games console changes from £60 to £105. Work out the percentage increase.	
3 Chloe's salary increases by 10%. (Calculator) Her new salary is £335.50. Work out her salary before the increase.	
4 A washing machine costs £120 plus VAT at 20%. In a sale, the price including VAT is reduced by 25%. Work out the sale price of the washing machine.	
5 Work out the value of x. (Calculator) Give your answer to 3 significant figures. The diagram is not drawn accurately. 	

Day 357	A Tier 10-a-day
6 Sam invests £5000 in a savings account. (Calculator) The account pays 2% compound interest per year. Work out the amount in the account after 2 years.	
7 40% of a number is 132. (Calculator) Work out 15% of the same number.	
8 Expand and simplify $(x - 2)(x - 1)(x + 3)$	
9 Show that $\frac{\sqrt{75} + \sqrt{27}}{\sqrt{3}}$ is an integer, and find its value.	
10 Make x the subject of $y = \frac{3x + 2}{2x - 6}$	