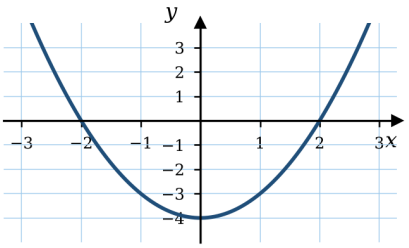
Day 159	B Tier 10-a-day
1 The number of members of a club goes from 300 to 180. Work out the percentage decrease.	
2 Write the ratio 28 : 8 : 28 in its simplest form.	
3 Write these numbers in order of size. Start with the smallest number. 7.263, 7.18, 7.27, 7.2	
4 Each interior angle of a regular polygon is 140°. Work out the number of sides of the polygon.	
5 The nth term of a sequence is $5n - 1$ (a) Work out the 9th term. (b) Is 77 a term in the sequence? You must show how you get your answer.	

Day 159	B Tier 10-a-day
6 Work out (a) 5^{-1} (b) $3^0 + \sqrt{81}$	
7 The diagram shows the graph of $y = x^2 - 4$ (a) Write down the solutions of $x^2 - 4 = 0$ (b) Write down the coordinates of the minimum point of the graph. 	
8 A skier travels at 16 metres per second. Work out this speed in kilometres per hour.	
9 A pyramid has a rectangular base 4 cm by 5 cm and vertical height 6 cm. Volume of a pyramid = $\frac{1}{3}$ × base area × height Work out the volume of the pyramid.	
10 A coach 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.	