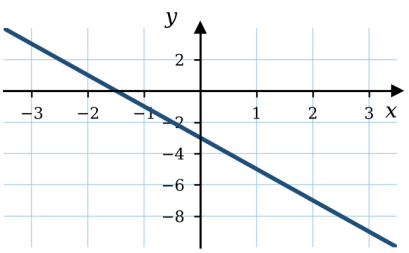
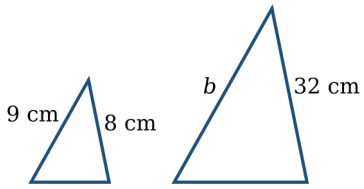
Day 271	B Tier 10-a-day
1 100 deer in a lake are caught, tagged and returned to the lake. Later, a sample of 50 deer is caught and 8 of them are tagged. Estimate the total number of deer in the lake.	
2 Write these in order of size. Start with the smallest. $\frac{4}{5}, \frac{7}{20}, \frac{2}{5}, 0.5$	
3 Solve $6x - 12 = 2x + 8$	
4 Here are the number of customers at a shop each day. 33, 42, 22, 43, 31, 44, 40, 27 (a) Find the median. (b) Work out the range.	
5 The diagram shows a straight line. (a) Work out the gradient of the line. (b) Find the equation of the line. 	

Day 271 **B Tier 10-a-day**

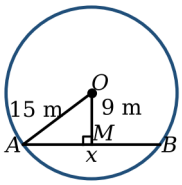
6 The two triangles are similar.
(a) Work out the scale factor of the enlargement from the smaller triangle to the larger triangle.
(b) Work out the value of b.
The diagram is not drawn accurately.



7 $E = \frac{1}{2}mv^2$
Work out the value of E when m = 6 and v = 7

8 Write down
(a) the square root of 100
(b) the cube root of 216

9 A circle has centre O and radius 15 m.
AB is a chord and M is the midpoint of AB. OM is perpendicular to AB.
Work out the value of x.
The diagram is not drawn accurately.



10 In a sale, the price of a sofa is reduced by 50%. (Calculator)
Two weeks later it is reduced by a further 25% of the new price.
The final price is £150.
Work out the original price of the sofa.