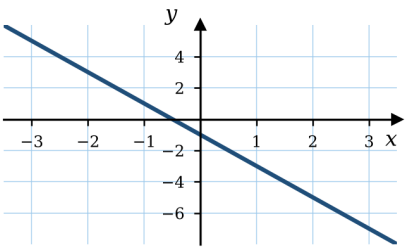
Day 170	B Tier 10-a-day
1 Sophie buys 3 pens at 60p each and 3 notebooks at £1.85 each. She pays with a £50 note. Work out how much change she gets.	
2 Simplify fully (a) 4c × 4d (b) 9m × 9m	
3 A sheet of card measures 19 cm by 7 cm. A rectangle measuring 6 cm by 2 cm is cut out. Work out the area that is left.	
4 £1 = 1.4 euros (a) Change £100 into euros. (b) Change €56 into pounds.	
5 A goat is tied to a post in the middle of a large flat field by a rope 5 m long. (Calculator) Work out the area of grass the goat can reach. Give your answer correct to 1 decimal place.	

Day 170 **B Tier 10-a-day**

6 The diagram shows a straight line.
(a) Work out the gradient of the line.
(b) Find the equation of the line.



7 In a bag of counters, the ratio of green to red is 1 : 4.
The ratio of red to white is 1 : 2.
Write down the ratio green : red : white.

8 $s = ut + \frac{1}{2}at^2$
Work out the value of s when u = 2, a = 5 and t = 2

9 Work out
(a) 3^{-2}
(b) $11^0 + \sqrt{4}$

10 A boat sails 7 m on a bearing of 180° from P to Q, then 24 m on a bearing of 270° to R. (Calculator)
(a) Work out the distance PR.
(b) Work out the bearing of R from P.
Give your answers correct to 1 decimal place.

