Day 351 **B Tier 10-a-day**

1 A pot contains 9 pink beads, 4 blue beads and 5 gold beads.
One is taken at random. Find the probability that it is pink or blue.

2 Does the point $(4, -5)$ lie on the line $y = -x - 4$?
You must show your working.

3 Priya has £375.
They spends $\frac{4}{5}$ of the money on a book.
They then spends $\frac{4}{5}$ of the money left on a drink.
How much money is left?

4 Complete the table of values for $y = 5x + 6$

x	0	1	2	3	4
y	6	11			

5 A rectangle has length $(4x + 2)$ m and width $(3x + 1)$ m.
The perimeter of the rectangle is 34 m.
(a) Work out the value of x.
(b) Work out the area of the rectangle.

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6 (a) Change 6.9 tonnes to kg. (b) Change 1805 cm to m.	
7 The circumference of a circle is 45 cm. (Calculator) Work out the diameter of the circle. Give your answer correct to 1 decimal place.	
8 A fuel tank is $\frac{1}{4}$ full. 80 litres of fuel are added. The fuel tank is now $\frac{1}{2}$ full. Work out the capacity of the fuel tank.	
9 A kite flies at 6 metres per second. Work out this speed in kilometres per hour.	
10 A rectangle has length (x + 2) cm and width (x − 7) cm. The area of the rectangle is 22 cm^2. (a) Show that $x^2 - 5x - 36 = 0$ (b) Hence work out the length of the rectangle.	