Day 191 **B Tier 10-a-day**

1 A jug holds 2.4 litres of juice.
Each glass holds 300 ml.
How many glasses can be filled from the jug?

2 Callum and Femi share some money in the ratio 9 : 1.
Callum gets £80 more than Femi.
How much money does Callum get?

3 Work out the value of $4a - 2b$
when $a = -3$ and $b = 7$

4 The bearing of B from A is 114°.
Work out the bearing of A from B.

5 The table shows some information about 75 people at a meeting.
One person from the group "Female" is chosen at random.
Find the probability that this person chose "Tea".

	Tea	Coffee	Total
Male	26		38
Female		13	
Total			75

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6 Use the fact that 26 × 39 = 1014 to work out (a) 2600 × 39 (b) 10.14 ÷ 26	
7 A straight line has gradient −3 and passes through the point (3, 3). Find the equation of the line.	
8 24 adults were asked. 16 of them like tea and 12 of them like coffee. 9 of them did both. (a) How many did neither? (b) One is chosen at random. Find the probability that they like tea but do not like coffee.	
9 The circumference of a circle is 20π m. Work out the radius of the circle.	
10 Solve the simultaneous equations 2x + y = 13 4x − y = 23	