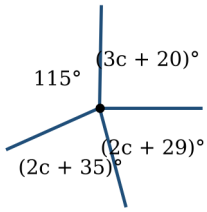
Day 257 **B Tier 10-a-day**

1 The diagram shows 4 angles round a point.
Work out the value of c.
The diagram is not drawn accurately.

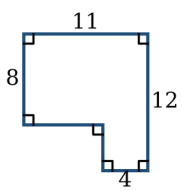


2 Aisha, Sam and Femi share 169 stamps in the ratio 4 : 3 : 6.
Work out how many Femi gets.

3 Work out
(a) $41 - 40 \div 5 + 6 \times 3$
(b) $5^2 - (10 - 8) \times 3$

4 A boat travels at a constant speed of 18 km/h for 30 minutes.
How far does it travel?

5 The diagram shows the shape of a garden.
All the corners are right angles. All lengths are in m.
(a) Find the perimeter.
(b) Find the area.



Day 257	B Tier 10-a-day
6 Work out (a) $\frac{2}{5} + \frac{1}{6}$ (b) $\frac{1}{8} - \frac{1}{12}$ Give each answer in its simplest form.	
7 A rectangular poster measures 15 cm by 16 cm. A rectangle measuring 7 cm by 4 cm is cut out. Work out the area that is left.	
8 36 adults were asked. 19 of them like tea and 17 of them like coffee. 7 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 equation $x^3 + x = 13$ has a solution between 2 and 3. (Calculator) Use trial and improvement to find this solution. Give your answer correct to 1 decimal place.	
10 A shop sells pens and pencils. All pens cost the same and all pencils cost the same. 1 pen and 2 pencils cost 160p. 3 pens and 2 pencils cost 300p. Work out the cost of one pen and the cost of one pencil.	