

**23rd September**

Corbettmaths

Patterns are made of sticks



Pattern 1



Pattern 2



Pattern 3



Pattern 4

Complete the table for Pattern 4.

Pattern Number	1	2	3	4
Number of Sticks	6	9	12	

$$\frac{1}{3} \text{ of } 30 = \frac{2}{3} \text{ of } \dots\dots\dots$$

Expand  $3(2y - 1)$ 

Simplify

$$w^3 \times w^{-5}$$

In 2000 the population of a country was 4,580,000  
By 2015, the population had increased by 18%

Work out the population in 2015