

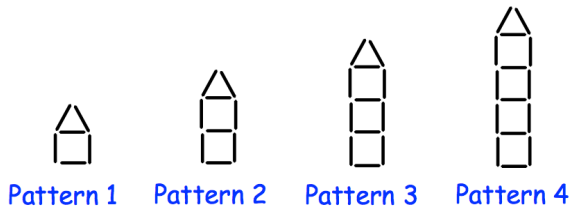


Expand $12(5 - x)$

Simplify

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

Patterns are made of sticks



Complete the table for Pattern 4.

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

Find an expression for the number of sticks in Pattern n.

How many sticks are there in Pattern 200?

In 2000 the population of a country was 4,200,000
 By 2020, the population had increased by 18%

Work out the population in 2020