

**16th March**

Corbettmaths

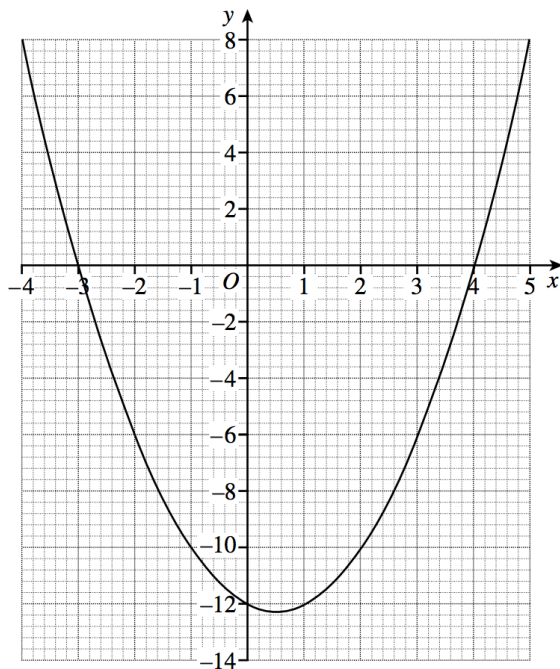
A lock has four rotating wheels, each with numbers 0, 1, 2, 3, 4, 5, 6, 7, 8 and 9.

How many different combinations can be set?

Find the greatest and least total length of 8 sticks, each 6cm to the nearest cm.

Least length = \_\_\_\_\_

Greatest length = \_\_\_\_\_



Shown is the graph  $y = x^2 - x - 12$

Using the graph, write down the roots for  $x^2 - x - 12 = 2$

Write down the equation of the line of symmetry for the graph  $y = x^2 - x - 12$

Write the cube root of  $y$  in index form