

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?

$$10 \times 10 \times 10 \times 10$$

$$10000$$

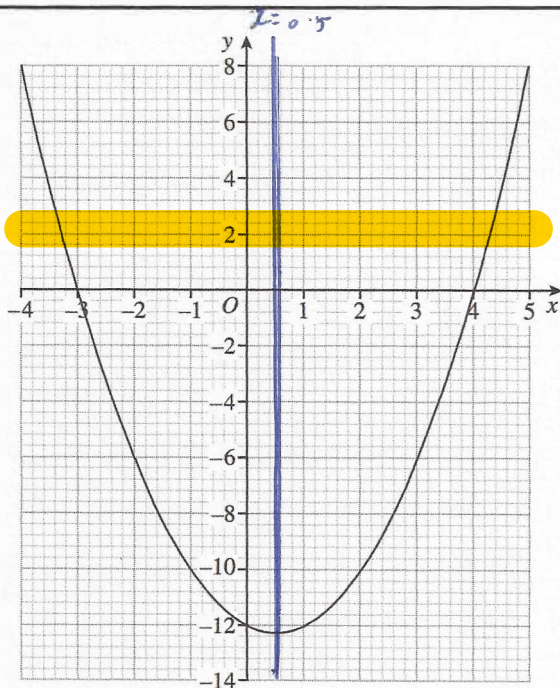
Find the greatest and least total length of 8 sticks, each 6cm to the nearest cm.

$$UB \ 6.5$$

$$LB \ 5.5$$

$$\text{Least length} = \underline{44 \text{ cm}}$$

$$\text{Greatest length} = \underline{52 \text{ cm}}$$



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

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

$$x = -3.3 \text{ \& } x = 4.3$$

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

$$x = 0.5$$

Write the cube root of  $y$  in index form

$$y^{\frac{1}{3}}$$