16th March **Higher 5-a-day**

Corbettmaths

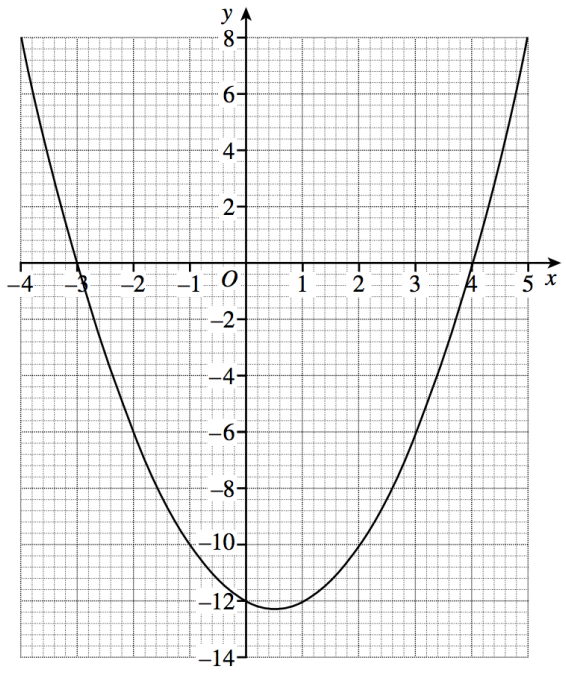
A lock has four rotating wheels, each with numbers 0, 1, 2, 3, 4, 5, 6, 7, 8 and 9.

How many different combinations can be set?

An average orange weighs 130g.
The net weighs 10g.
Both weights are correct to two significant figures.

A net contains 8 oranges.

Work out the upper bound for the weight of the net of oranges.



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

Using the graph, estimate the roots of $x^2 - x - 12 = 2$

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