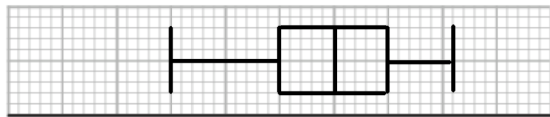


28th January

Corbettmaths

Solve the inequality

$$5x^2 < 45$$



0 30 60 90 120 150
 Mass, grams

The box plot shows information about the masses of apples in a box

Jack picks three apples at random, one at a time, replacing each before picking the next. Find the probability that he chooses two over 90g and one under 75g.

The minimum point of a quadratic graph in the form $y = x^2 + ax + b$ is $(-2, -10)$.

Find a and b .

$$f(x) = 3x - 5$$

Find

$$f^{-1}(x)$$

ABCD and LMNO are squares.
 Angle CBL = x

Prove that triangles ABO and CBL are congruent.

