

6th August

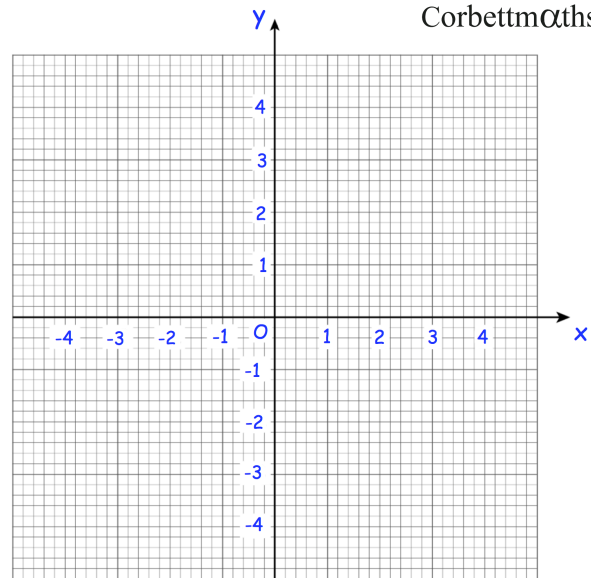
Corbettmaths

A function $f(x)$ is defined as

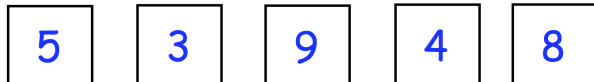
$$f(x) = -x \quad -4 \leq x < 0$$

$$= x^2 \quad 0 \leq x < 2$$

$$= 10 - 3x \quad 2 \leq x \leq 4$$

Draw the graph of $y = f(x)$ 

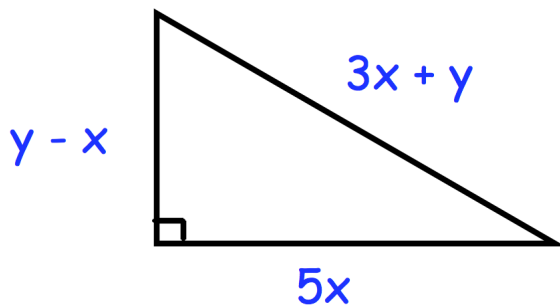
Jackson makes 5-digit numbers using all of these cards.



How many different numbers greater than 60000 can Jackson make?

The n th term of a sequence is $n^2 + 6n$
 Two consecutive terms in the sequence have a difference of 35

Work out the two terms.

Prove $x : y = 8 : 17$