**13th May**

Neil chooses a password for his email account. His password has 4 letters (lowercase) and then 3 digits (0 - 9).

How many different possible passwords can he choose?

The region labelled R satisfies three inequalities.

State the three inequalities

Calculate x

There are 11 counters in a bag. 4 counters are white and the rest are red.

Patrick chooses a counter at random, notes its colour, then replaces it. He then chooses a second counter at random.

Work out the probability that Patrick chooses two counters that are different colours.