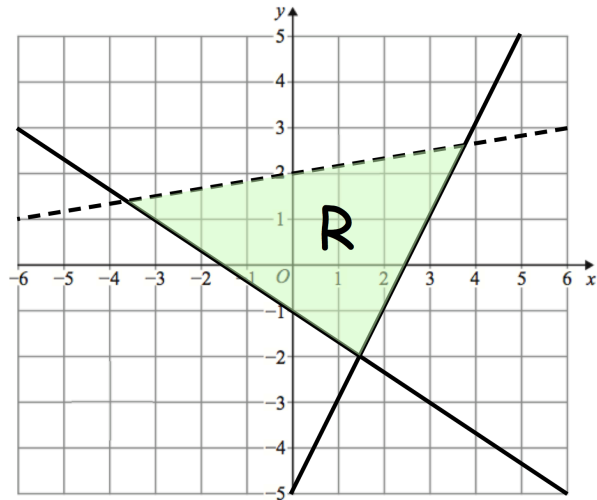




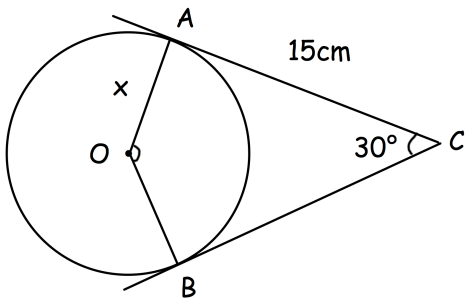
Patrick chooses a password for his email account.
His password has 3 letters (lowercase) and then 3 digits (0 - 9)

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.

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

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