Bag A contains 4 red, 3 yellow and n green balls.

5. Two bags, A and B, each contain balls which are either red or yellow or green.

A ball is selected at random from bag **A** and placed into bag **B**.

A ball is then selected at random from bag **B** and placed into bag **A**.

The probability that bag A now contains an equal number of red, yellow and green balls is p.

Given that p > 0, find the possible values of n and p.

Bag B contains 5 red, 3 yellow and 1 green ball.