* 0019654999406 *



3 Box A contains 6 green balls and 3 yellow balls.

Box *B* contains 4 green balls and *x* yellow balls.

A ball is chosen at random from box A and placed in box B. A ball is then chosen at random from box B.

(a) Draw a tree diagram to represent this information, showing the probability on each of the branches.

[4]





The probability that both the balls chosen are the same colour is $\frac{8}{15}$.

the value of x .

