

- 15** There are only blue counters and red counters in a box.
There are 5 times as many blue counters as red counters.

Ashley takes at random one counter from the box.

He records the colour of the counter, then puts the counter back in the box.

Ashley does this 3 times.

- (a) Find the probability that Ashley takes a counter of the same colour all 3 times.

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(3)

The number of blue counters in the box is doubled.

The number of red counters in the box is doubled.

Ashley takes 3 counters in the same way as in part (a).

Ashley thinks that the probability that he takes a counter of the same colour all 3 times is the same as the answer in part (a).

- (b) Is Ashley correct?

Give a reason for your answer.

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(1)