15 There are two bags of counters, bag **X** and bag **Y**.

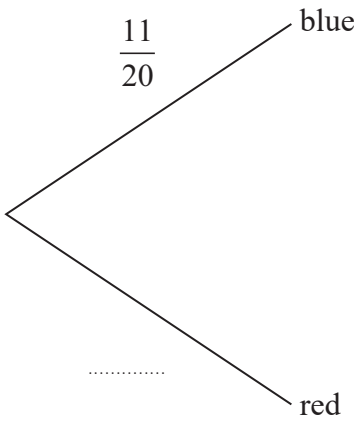
There are 20 counters in bag **X**.
11 of the counters are blue and the rest are red.

There are 16 counters in bag **Y**.
9 of the counters are blue and the rest are red.

Arkady takes at random a counter from bag **X** and takes at random a counter from bag **Y**.

(a) Complete the probability tree diagram.

bag X **bag Y**



(3)

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(b) Work out the probability that the two counters are both red.

.....

(2)

(c) Work out the probability that the two counters are both red or are both blue.

.....

(3)

(Total for Question 15 is 8 marks)

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