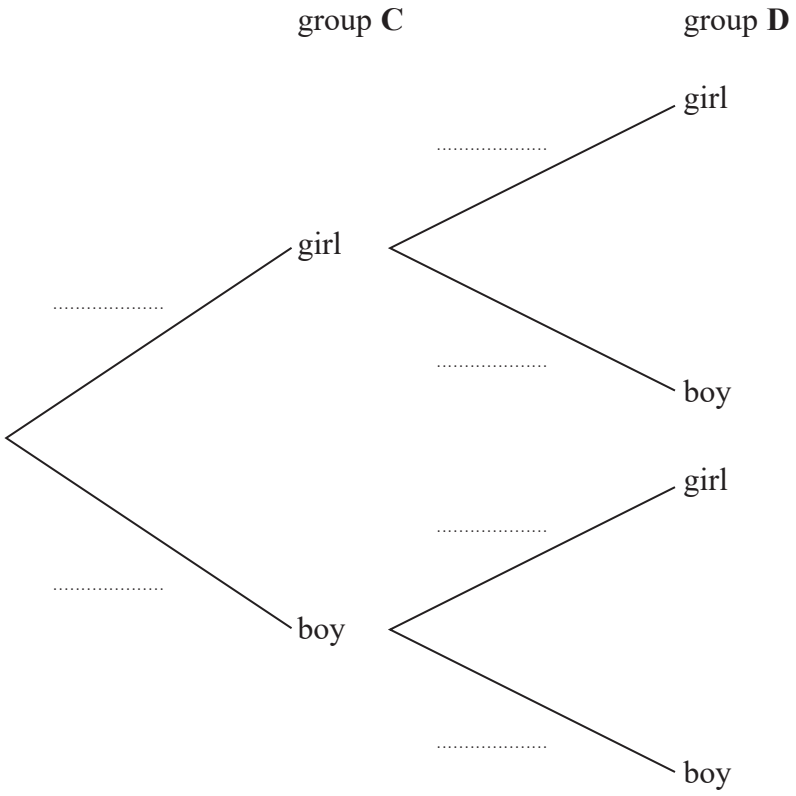
13 In group **C**, there are 6 girls and 8 boys.
In group **D**, there are 3 girls and 7 boys.

A team is made by picking at random one child from group **C** and one child from group **D**.

(a) Complete the probability tree diagram.



(2)

(b) Work out the probability that there are two boys in the team.

.....

(2)

DO NOT WRITE IN THIS AREA
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After the first team has been picked, a second team is picked.
One child is picked at random from the children left in group **C** and one child is picked at random from the children left in group **D**.

(c) Work out the probability that there are two boys in each of the two teams.

.....

(3)

(Total for Question 13 is 7 marks)

14 $\mathscr{E}$ = {positive integers less than 20}
$A = \{x : x < 12\}$
$B = \{x : 7 \leqslant x < 16\}$

(a) List the members of $A \cap B$

.....

(2)

C is a set such that $C \subset A$ and $n(C) = 3$

Given that all members of C are even numbers,

(b) list the members of one possible set C.

.....

(1)

(Total for Question 14 is 3 marks)