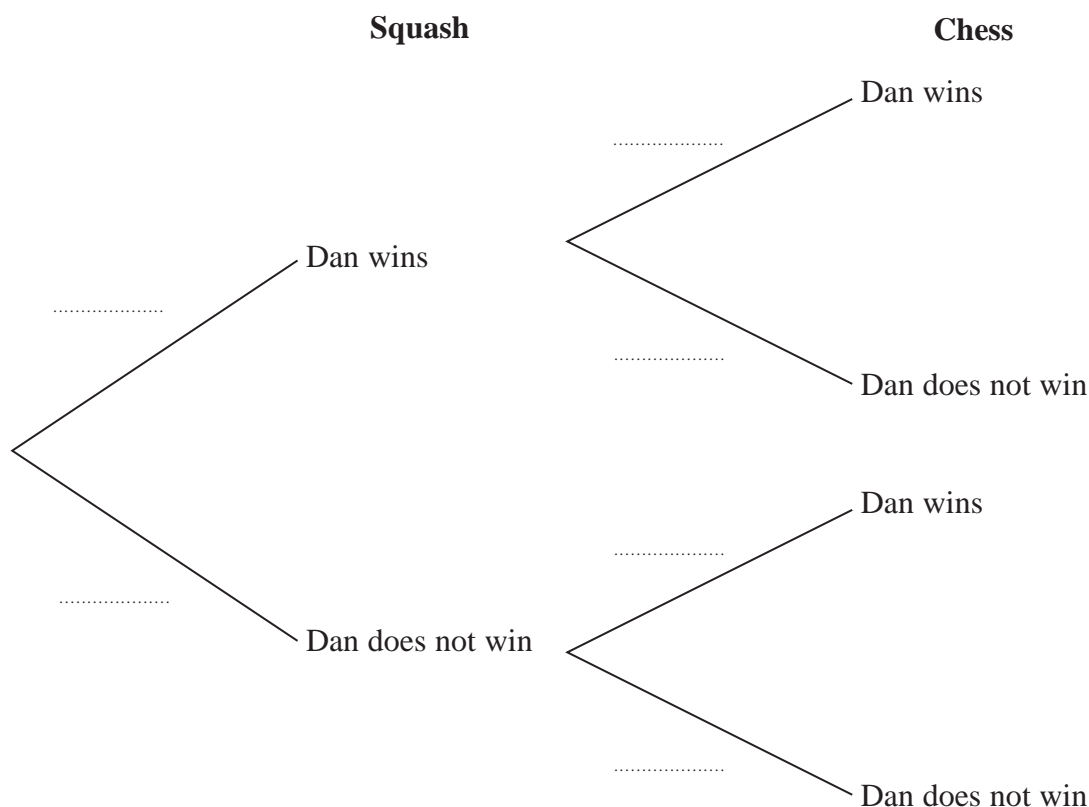**5** Dan is going to play one game of squash and one game of chess against his friend.

The probability that Dan will win the game of squash is $\frac{3}{5}$

The probability that Dan will win the game of chess is $\frac{1}{3}$

(a) Complete the probability tree diagram.

Squash   **Chess**

Dan wins

.... Dan wins

.... Dan does not win

....

Dan does not win

.... Dan wins

.... Dan does not win

(2)

(b) Find the probability that Dan will win exactly one game.

(2)

Given that Dan won exactly one game,

(c) calculate the probability that he won his game of squash.

(2)

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Question 5 continued

(Total for Question 5 is 6 marks)