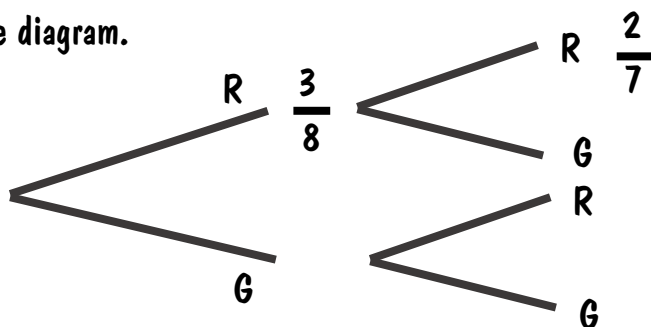


### ACTION

### RESPONSE

There are 3 red marbles and 5 green marbles in a bag. 1 marble is selected and not replaced. A second marble is then selected. Complete the probability tree diagram.



Fluency



Reasoning



Kate takes fruit and a drink to work each day. The probability that she takes an apple is 0.6. The probability that she takes orange juice is 0.45  
Draw a tree diagram to represent this situation.

A box of sweets contains 3 fruit flavour sweets, 2 mints and 5 toffees. Two sweets are picked at random (without replacement). Draw a tree diagram to represent this situation.

Problem Solving



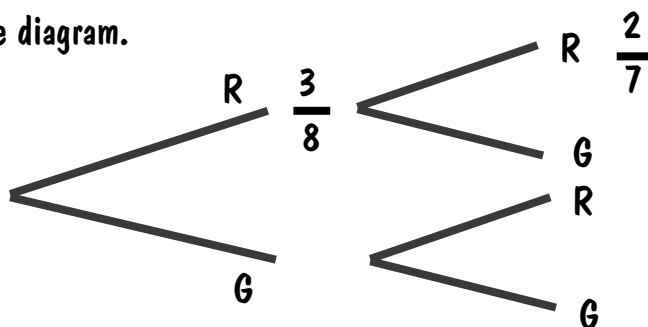
- 1) 37% of the UK population go abroad for their annual holiday. Two people are chosen at random. Use a tree diagram to find the probability that
  - a) Both of them go abroad for their holiday.
  - b) At least one of them goes abroad for their holiday.
- 2) A bag contains 80 discs coloured in the ratio 3 : 5  
Two discs are drawn at random (without replacement)  
Use a tree diagram to find the probability that a disc of each colour is selected.



### ACTION

### RESPONSE

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