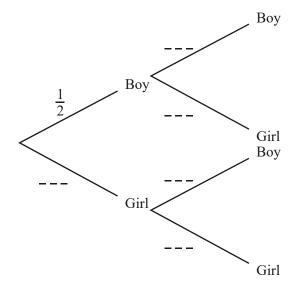
## Do Now

- 1. Let *F* be the set of all families that have exactly 2 children.
  - (a) Assuming P(boy) = P(girl), copy and complete the following tree diagram, for families with 2 children.



- (b) What is the probability that a family chosen at random from F has exactly
  - (i) 2 boys?
  - (ii) 2 boys, if it is known that the first child is a boy?
  - (iii) 2 boys, if it is known that there is a boy in the family?

(3) (Total 5 marks)

**(2)** 

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## **Early finishers**

2. A bag contains 2 red, 3 yellow and 5 green sweets.

Without looking, Mary takes one sweet out of the bag and eats it. She then takes out a second sweet.

- (a) If the first sweet is green, what is the probability that the second sweet is also green?
- (b) If the first sweet is not red, what is the probability that the second sweet is red?

Working:	
	Answers:
	(a)(b)
	(b)

(Total 4 marks)