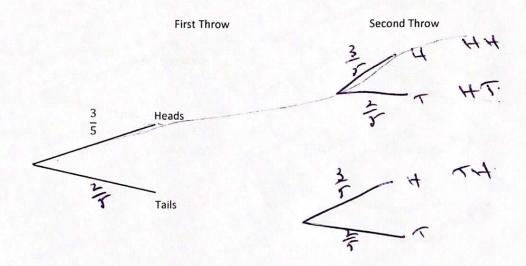


General practice

QT Probability Trees

- 1. A coin is biased. When it is thrown, the probability that is lands on heads is $\frac{3}{5}$. John throws the coin twice.
- a) Complete the probability tree diagram.

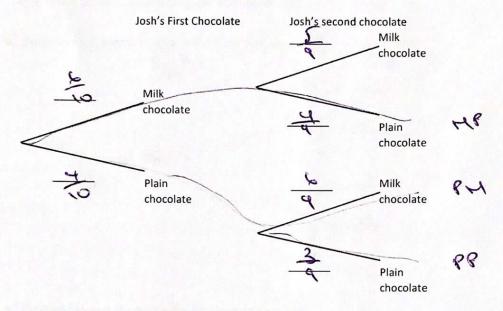


b) Find the probability that the coins lands on heads both times.

c) Find the probability that the coin lands on heads at least once.



- 2. There are 6 milk chocolates and 4 plain chocolates in a box. Josh takes a random chocolate from the box and eats it. He then takes another chocolate and eats that as well.
- a) Complete the probability tree diagram.



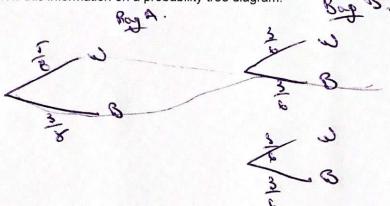
b) Find the probability that Josh eats at least one plain chocolate.



3. Carrie has two bags.

In bag A there are 5 white counters and 3 blue counters. In bag B there are 3 white counters and 3 blue counters. Carrie takes at random one counter from each bag.

a) Show this information on a probability tree diagram.

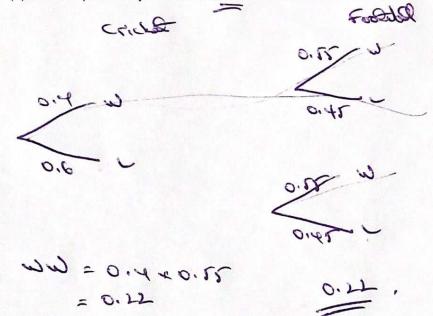


b) Find the probability that both counters will be blue.

c) Find the probability that only one of the counters will be white.



- 4. Izaan plays cricket on Saturday and football on Sunday. The probability that he wins his cricket match is 0.4, and the probability he wins his football match is 0.55.
- (a) Find the probability that Izaan wins both matches



(b) Find the probability that Izaan wins at least one of his matches.