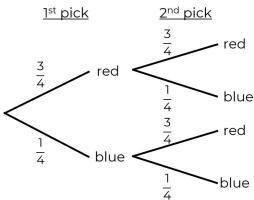
Maths





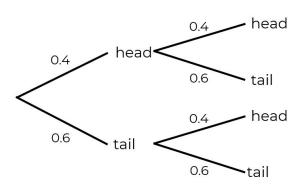
1. Tim takes two counters at random from a bag. He replaces the first counter after picking it out.



Calculate the probability that Tim picks two blue counters.

2. A biased coin is flipped twice.

1st flip
2nd flip



- a) Calculate the probability of flipping two heads.
- b) Calculate the probability of flipping exactly one tail.

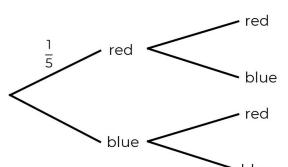


3. A fair five-sided spinner Is spun twice.

1st spin

2nd spin





- a) Complete the tree diagram.
- b) Calculate the probability of spinning red twice.

- 4. The probability that it rains on a Friday is 0.2. The probability that it will rain on a Saturday is 0.35.
- a) Draw a probability tree diagram to show the outcomes.

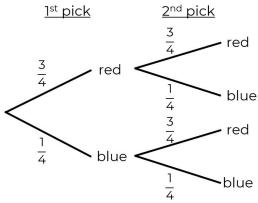
b) Calculate the probability that it will rain on at least one of the days.



Answers

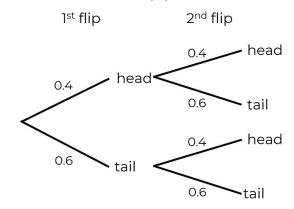


1. Tim takes two counters at random from a bag. He replaces the first counter after picking it out.



Calculate the probability that Tim picks two blue counters.

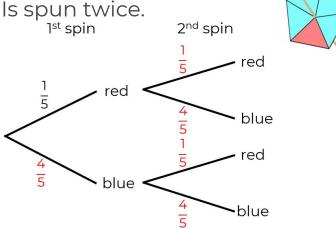
2. A biased coin is flipped twice.



- a) Calculate the probability of flipping two heads. 0.16
- b) Calculate the probability of flipping exactly one tail. 0.48



3. A fair five-sided spinner

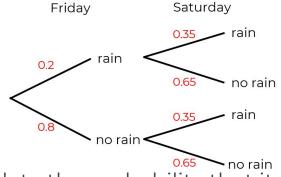


- a) Complete the tree diagram.
- b) Calculate the probability of spinning red twice.

25

4. The probability that it rains on a Friday is 0.2. The probability that it will rain on a Saturday is 0.35.

a) Draw a probability tree diagram to show the outcomes.



b) Calculate the probability that it will rain on at least one of the days. 0.48

