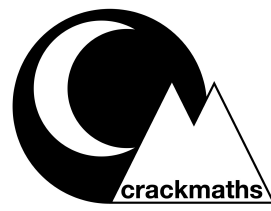


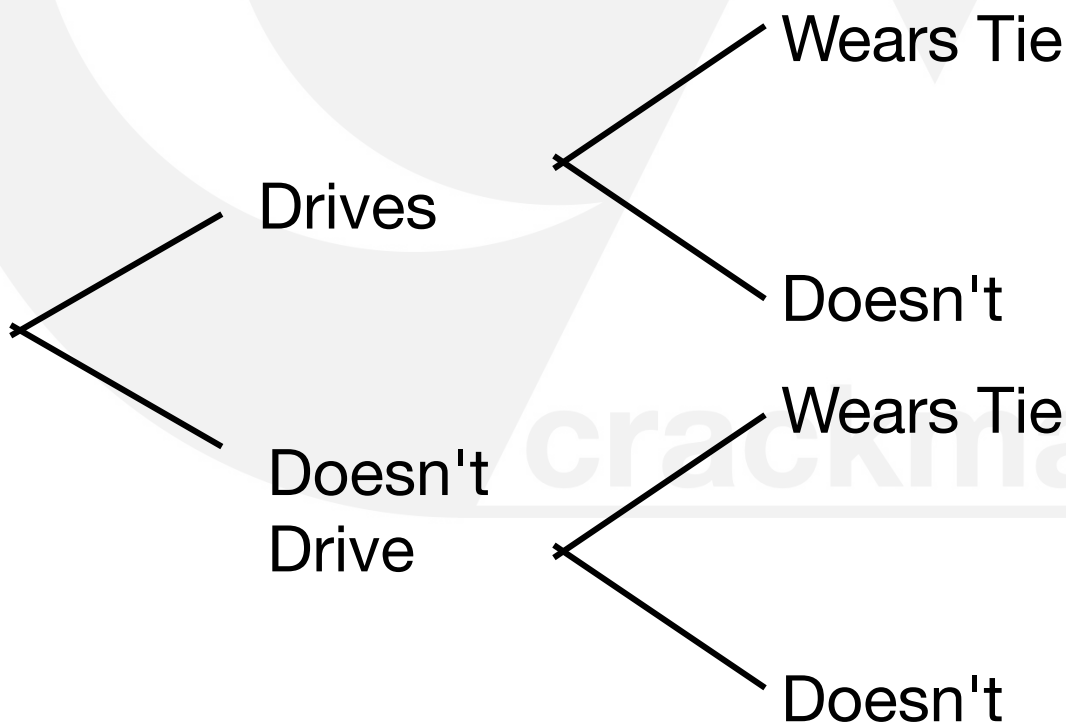
66. How to calculate probability from a probability tree



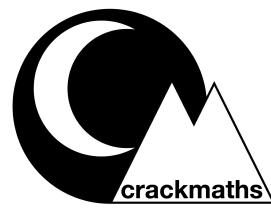
Scenario Questions:

1. Bob has a 0.6 chance of driving to work and a 0.7 chance of wearing a tie. The probability tree shows this information.

- a. What is the probability that he both drives and wears a tie
- b. What is the probability he doesn't drive and wears a tie



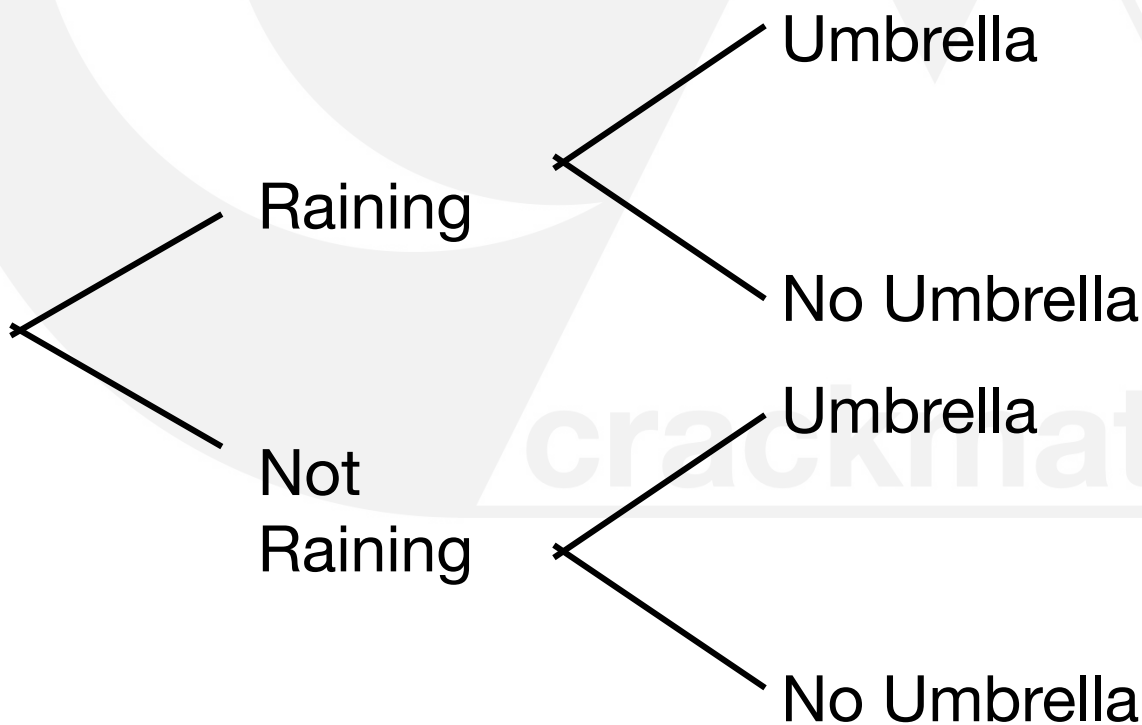
66. How to calculate probability from a probability tree



Scenario Questions:

2. There's a 40% chance of rain tomorrow, and a 80% chance that Lily remembers to bring her umbrella.

- a. What is the probability that it both rains and Lily brings her umbrella?
- b. What is the probability that it rains and Lily forgets her umbrella?



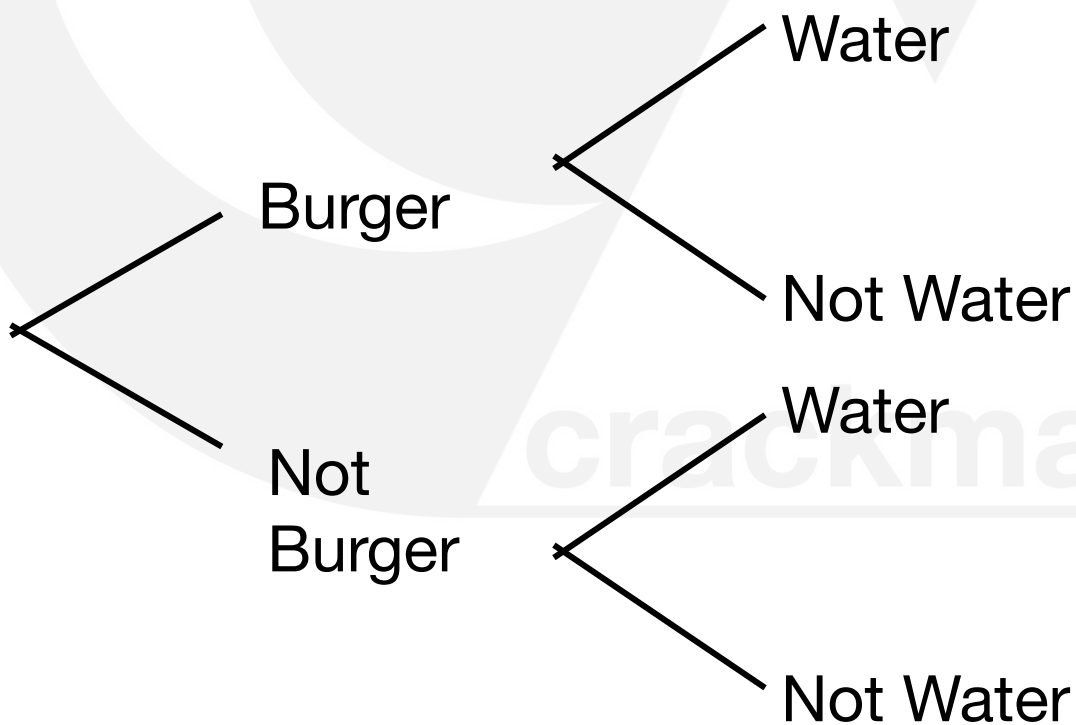
66. How to calculate probability from a probability tree



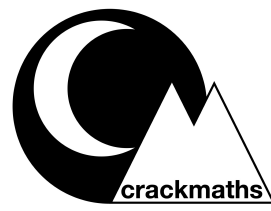
Scenario Questions:

3. Jasmine has a $\frac{3}{4}$ chance of ordering a burger for lunch, and a $\frac{3}{5}$ chance of getting a bottle of water to drink.

- a. What is the probability that she orders a burger and gets a bottle of water?
- b. What is the probability that she doesn't order a burger and gets water?



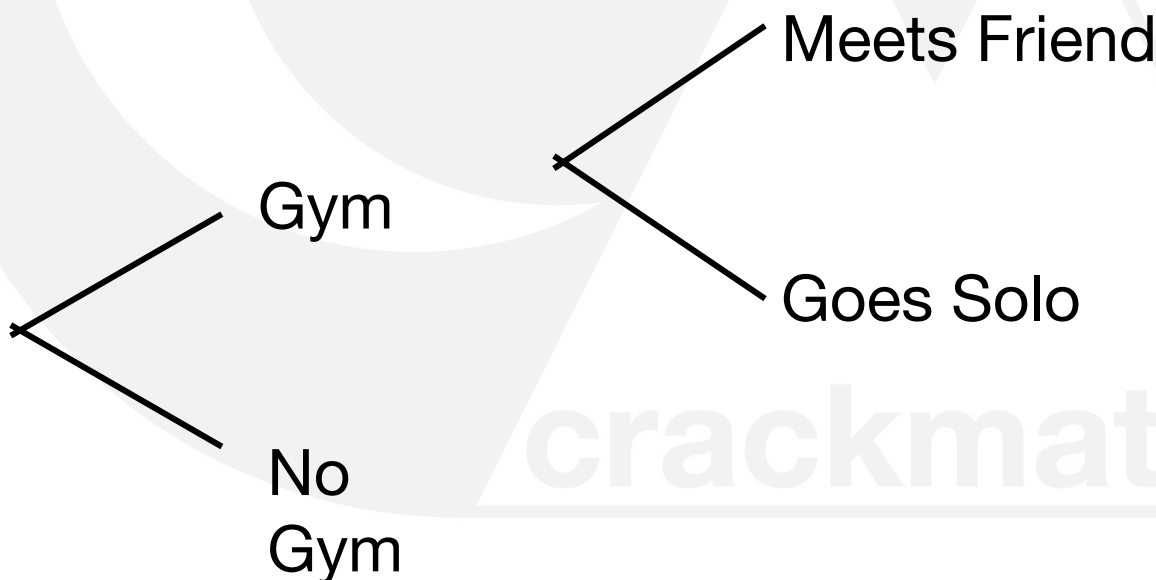
66. How to calculate probability from a probability tree



Scenario Questions:

4. Javine has a $\frac{3}{10}$ chance of going to the gym, and a $\frac{9}{10}$ chance of meeting her friend there.

- a. What is the probability that she goes to the gym and meets her friend?
- b. What is the probability that she goes to the gym and doesn't meet her friend?



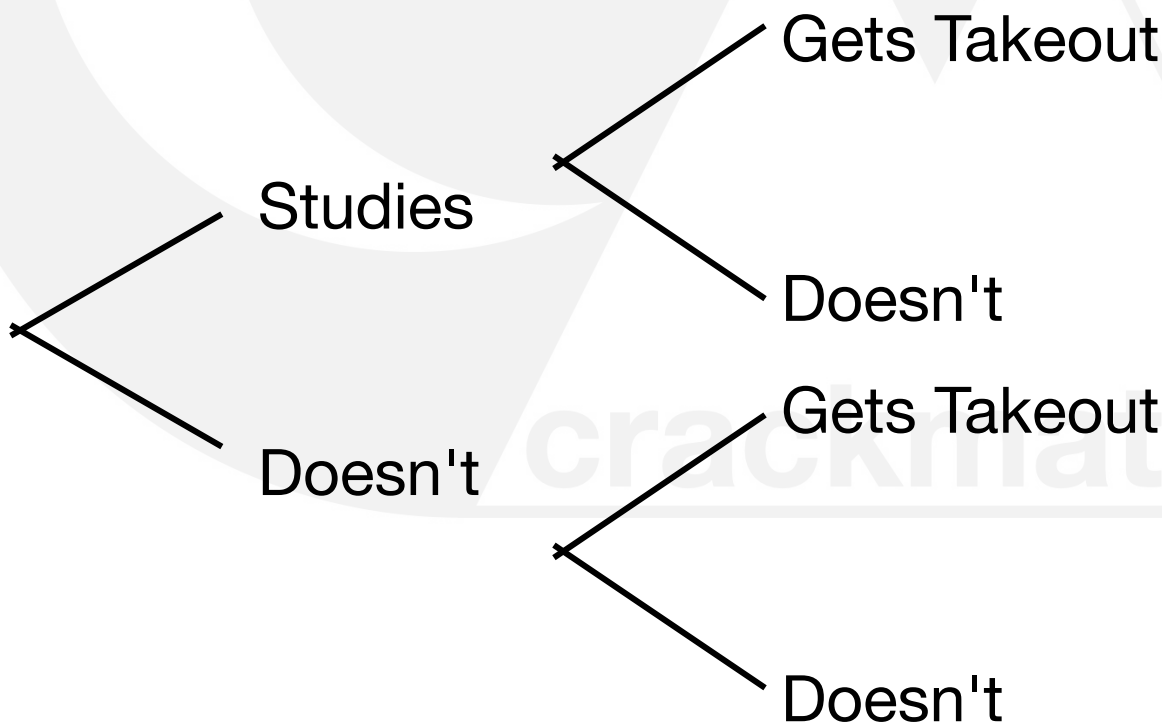
66. How to calculate probability from a probability tree



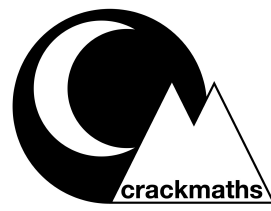
Scenario Questions:

5. Jamie has a 0.85 chance of studying for her maths test, and a 0.5 chance of getting take out for dinner.

- a. What is the probability that they both study and gets and eats take out for dinner?
- b. What is the probability that they don't study and gets take out for dinner?



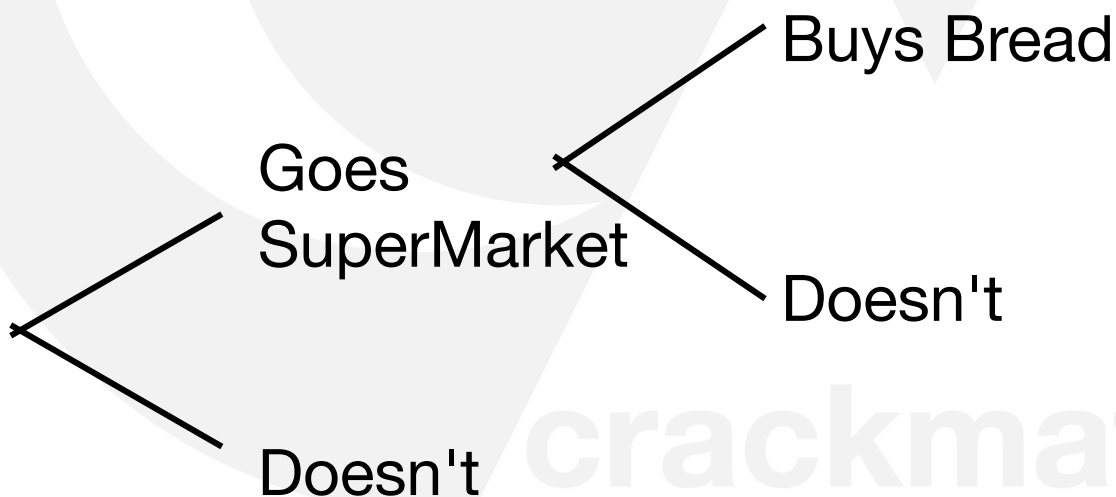
66. How to calculate probability from a probability tree



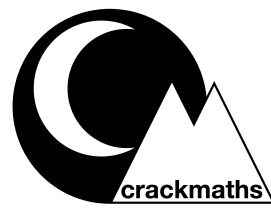
Scenario Questions:

6. James has a 0.7 chance of going to the supermarket, and a 0.4 chance of buying bread.

- What is the probability that he both goes to the supermarket and buys bread?
- What is the probability that he doesn't go to the supermarket



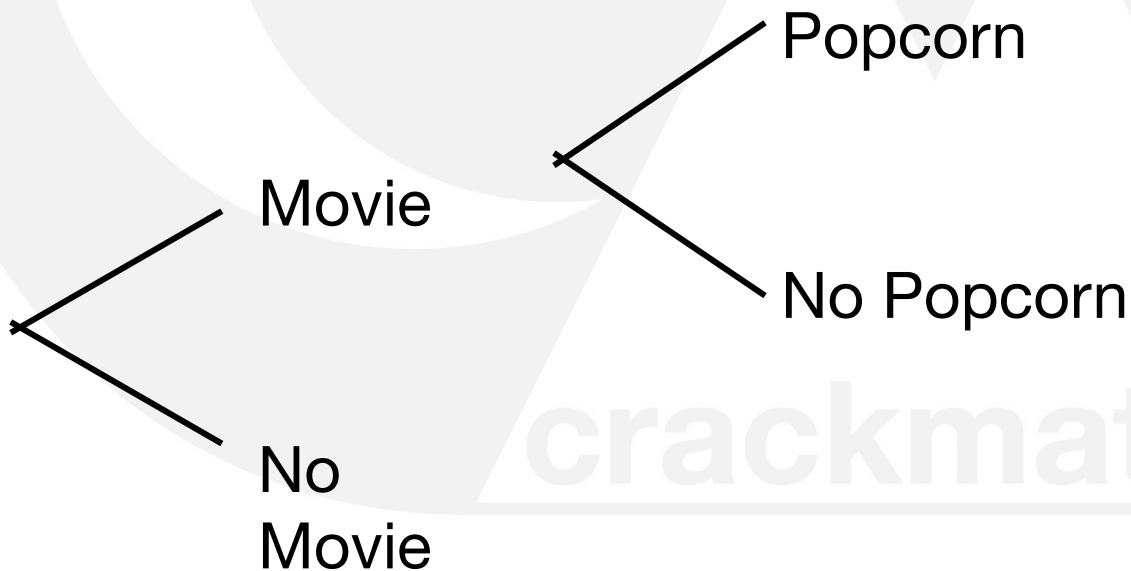
66. How to calculate probability from a probability tree



Scenario Questions:

7. Mark has a 50% chance of watching a movie, and a 60% chance of eating popcorn while watching it.

- a. What is the probability that he both watches a movie and eats popcorn
- b. What is the probability that he both watches a movie and doesn't eat popcorn?



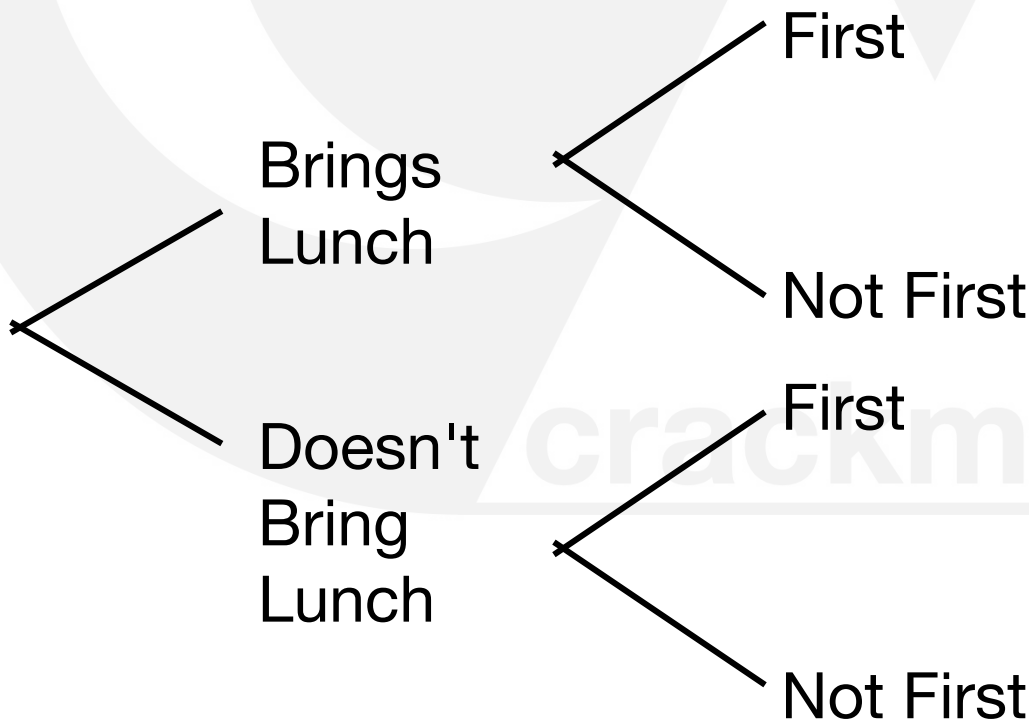
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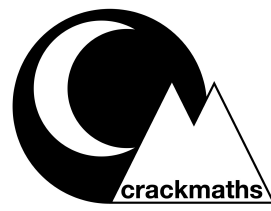
Scenario Questions:

8. Lionel has a 72% chance of bringing his lunch to work, and a 63% chance of being first to the photocopier.

- a. What is the probability that he both brings his lunch and gets to the photocopier first?
- b. What is the probability that he brings his lunch but misses out on the copier



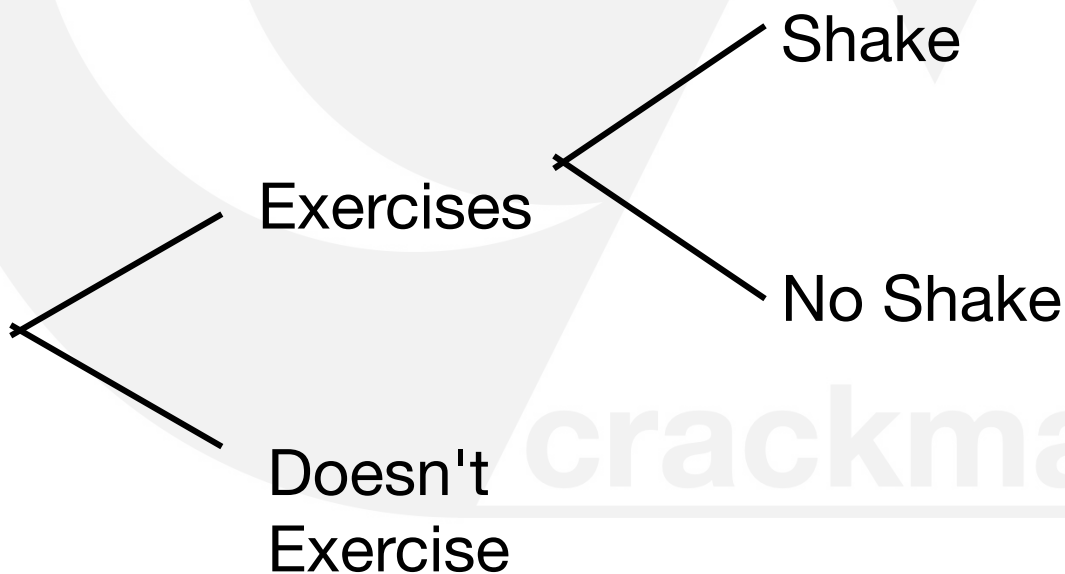
66. How to calculate probability from a probability tree



Scenario Questions:

9. Pedro has a 80% chance of exercising in the morning, and a 65% chance of drinking a protein shake afterwards.

- a. What is the probability that he both exercises and drinks a protein shake?
- b. What is the probability that he doesn't exercise?

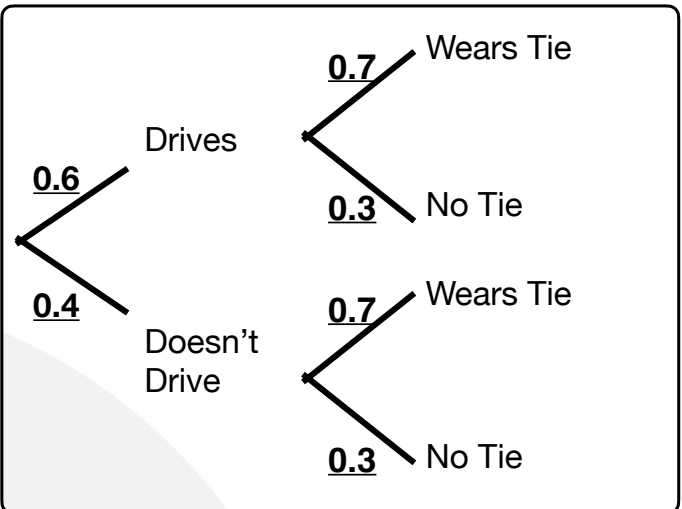


66. How to calculate probability from a probability tree



Scenario Questions: **Answers**

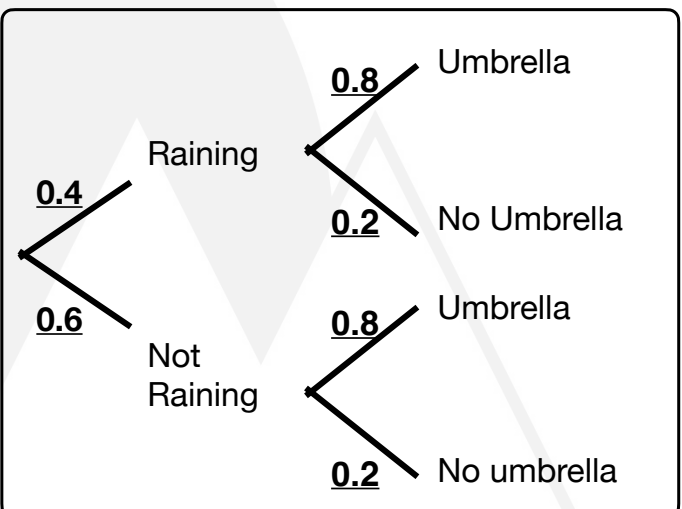
1. Bob has a 0.6 chance of driving to work and a 0.7 chance of wearing a tie. The probability tree shows this information.



- a. What is the probability that he both drives and wears a tie
- b. What is the probability he doesn't drive and wears a tie and doesn't drive

1. a. 0.42 b. 0.28.

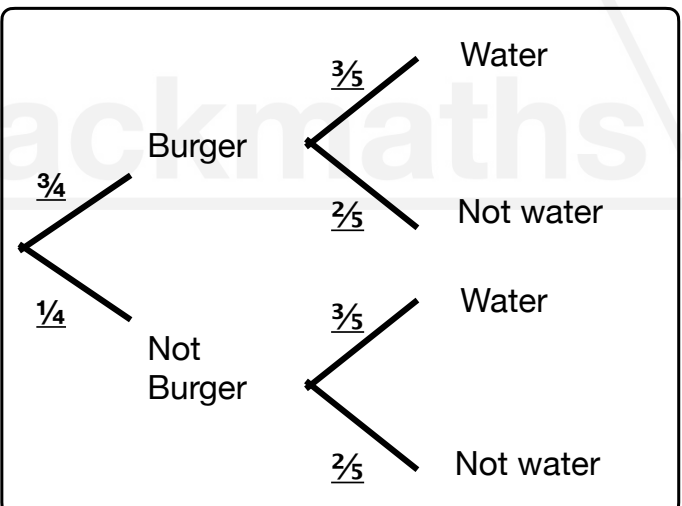
2. There's a 40% chance of rain tomorrow, and a 80% chance that Lily remembers to bring her umbrella.



- a. What is the probability that it both rains and Lily brings her umbrella??
- b. What is the probability that it rains and Lily forgets her umbrella?

2. a. 0.32. b. 0.08

3. Jasmine has a $\frac{3}{4}$ chance of ordering a burger for lunch, and a $\frac{3}{5}$ chance of getting a bottle of water to drink.



- a. What is the probability that she orders a burger and gets a bottle of water?
- b. What is the probability that she doesn't order burger and but gets water?

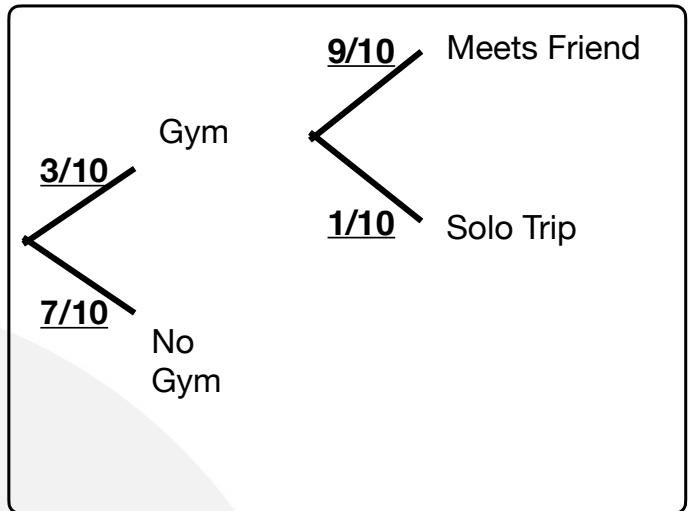
3. a. 9/20. b. 3/20

66. How to calculate probability from a probability tree



Scenario Questions: **Answers**

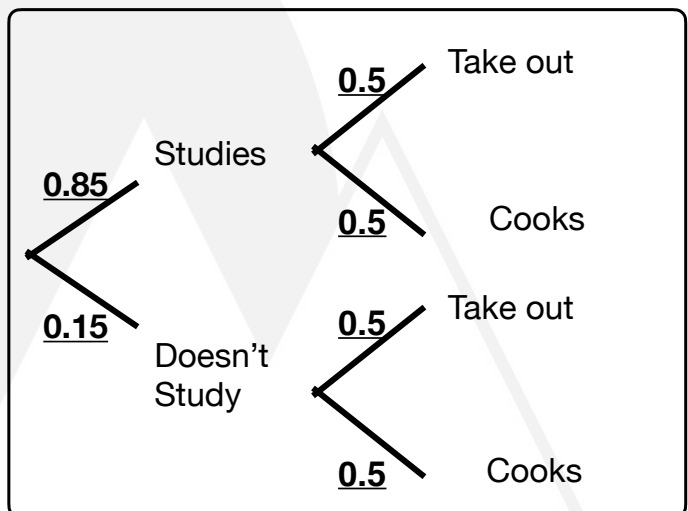
4. Javine has a $\frac{3}{10}$ chance of going to the gym, and a $\frac{9}{10}$ chance of meeting her friend there.



- a. What is the probability that she goes to the gym and meets her friend?
- b. What is the probability that she goes to the gym and doesn't meet her friend?

4. a. $\frac{27}{100}$ b. $\frac{3}{100}$.

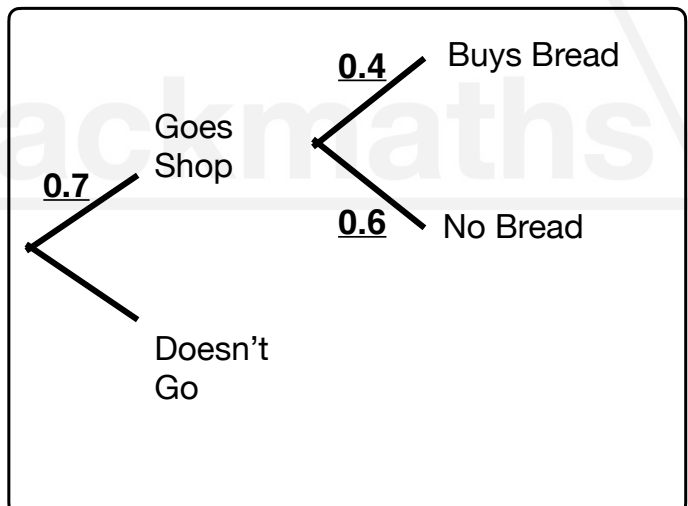
5. Jamie has a 0.85 chance of studying for her maths test, and a 0.5 chance of getting take out for dinner.



- a. What is the probability that they both study and gets and eats take out for dinner?
- b. What is the probability that they don't study and gets take out for dinner?

5. a. 0.425. b. 0.075

6. James has a 0.7 chance of going to the supermarket, and a 0.4 chance of buying bread.



- a. What is the probability that he both goes to the supermarket and buys bread?
- b. What is the probability that he doesn't go to the supermarket?

6. a. 0.28. b. 0.3

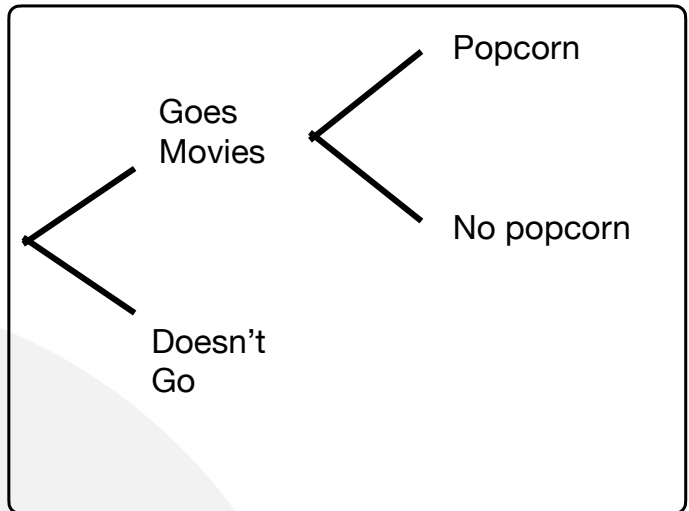
66. How to calculate probability from a probability tree



Scenario Questions: **Answers**

7. Mark has a 50% chance of watching a movie, and a 60% chance of eating popcorn while watching it.

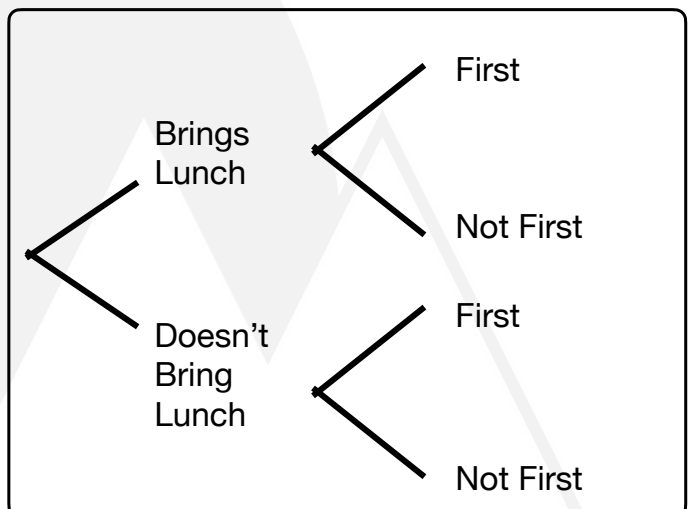
- a. What is the probability that he both watches a movie and eats popcorn
- b. What is the probability that he both watches a movie and doesn't eat popcorn?



7. a. 30%. b. 20%

8. Lionel has a 72% chance of bringing his lunch to work, and a 63% chance of being first to the photocopier.

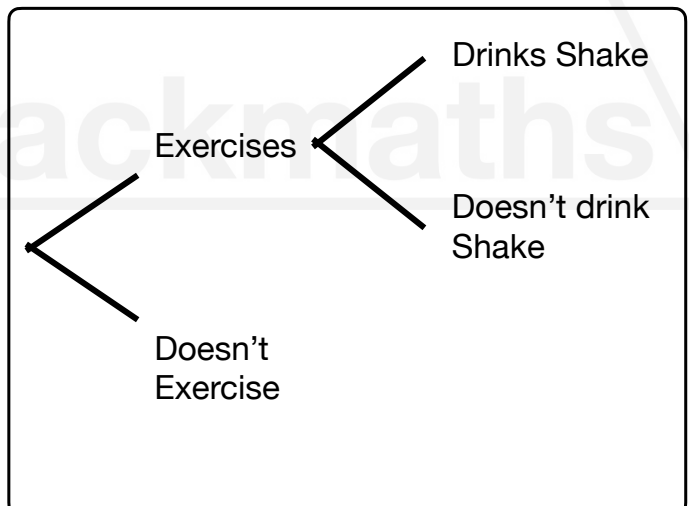
- a. What is the probability that he both brings his lunch and gets to the photocopier first?
- b. What is the probability that he brings his lunch but misses out on the copier



8. a. 45.36% b. 26.64%

9. Tom has a 80% chance of exercising in the morning, and a 65% chance of drinking a protein shake afterwards.

- a. What is the probability that he both exercises and drinks a protein shake?
- b. What is the probability that he doesn't exercise?



9. a. 52% b. 20%