

# Probability Tree Diagrams (without replacement)

What is your experiment (event)?

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What are the possible outcomes?

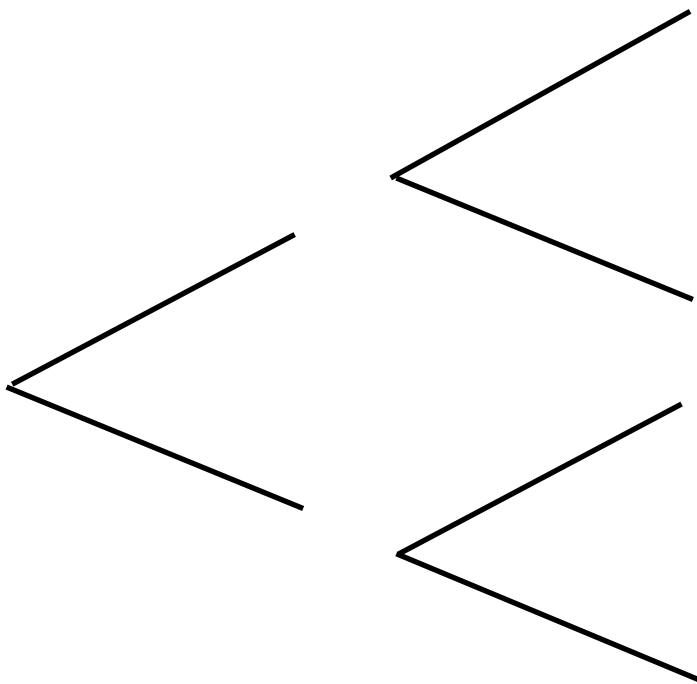
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What is the starting probability for each outcome?

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You pick one item and keep it, then you pick another. Complete the tree diagram with probabilities and outcomes. Then work out the probability of each pair of outcomes.

**Pairs of outcomes  
& Probabilities**



## Questions

1. What is the probability of getting one of each outcome?
2. What is the probability of getting the least likely outcome on your first go, followed by that outcome again?
3. What is the probability of getting two outcomes the same?