Solving Complex Probability Problems: Takeaways



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Concepts

- The opposite of a set E is called its **complement**, and it's denoted as E^{C} .
- For any random experiment either event E or E^C will happen, so the event "E or non-E" is certain and has a probability of 1:
- The **multiplication rule** says that for two events E_1 and E_2 , the probability that both event E_1 **and** E_2 happen can be found by multiplying the probability of E_1 by the probability of E_2 :
- The multiplication rule only works for **independent events**. Events that don't influence each other's probability are called independent events.
- When we sample an element from a group and put the element back, we're **sampling** with replacement.
- When we sample an element from a group but don't put it back, we're sampling without replacement.

Resources

- A nice tutorial on independent events
- A brief tutorial that covers types of events



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