

Probabilities of Multiple Random Experiments: Takeaways



by Dataquest Labs, Inc. - All rights reserved © 2020

Concepts

- Two events are independent if the occurrence of one does not affect the probability of the other happening. Mathematically speaking, we describe this as
- Two events are dependent if they do affect the others' probability of happening, denoted as
- The **complement** of an event represents all of the outcomes that don't satisfy the event condition.
- For any random experiment and event , you can calculate the probability of the complement as:
- The **multiplication rule** says that for two independent events and , the probability that both events **and** happen can be found by:

Resources

- [A nice tutorial on independent events](#)
- [A brief tutorial that covers types of events](#)



Takeaways by Dataquest Labs, Inc. - All rights reserved © 2020