

Cornell (No

## Simulating Compound Events

## Today's Standard

7.SP.C8c - Design and use a simulation to generate frequencies for compound events. For example, use random digits as a simulation tool to approximate the answer to the question: If 40% of donors have type A blood, what is the probability that it will take at least 4 donors to find one with type A blood?

Cues	Notes
What is a simulation?	A simulation is a process of modeling a real-world situation using random sampling to estimate probabilities.
How do you design a	
simulation?	Designing a simulation involves defining the problem, determining the random process, and conducting multiple trials.
What are compound events?	
	Compound events involve two or more simple events happening together.
Why use simulations?	
	Simulations help in approximating probabilities when theoretical
What are common misconceptions about	calculations are complex or impractical.
simulations?	Common misconceptions include believing simulations give exact probabilities and that the number of trials doesn't affect accuracy.

## Summary

Simulations are used to model real-world situations and estimate probabilities, especially for compound events. They involve randomness and require multiple trials for accuracy. Common misconceptions include misunderstandings about their precision and the impact of the number of trials.