



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?

Real-World Applications for this Standard

Estimating probabilities in medical studies; Predicting outcomes in sports statistics; Modeling customer behavior in marketing; Analyzing risk in financial investments; Simulating traffic flow in urban planning

Today I Learned

Today we learned about using simulations to find out how often things happen when there's more than one thing going on. For example, if we want to know how many tries it takes to find a person with a certain blood type, we can use a computer to help us guess.

Common Stumbling Blocks

Sometimes kids think that the computer will always give the exact right answer, but that's not true. Also, doing more tries usually helps us get a better guess.

Quiz Me

- What is a simulation?
- Why do we use simulations?
- What are compound events?
- How can we make our guesses better?
- What can we use to do simulations?

Help Me

We use simulations to guess how often things happen in real life, like finding a person with a certain blood type. This helps us understand and make better decisions in different situations.