Compound Event Sample Spaces

Today's Standard

7.SP.C8b - Represent sample spaces for compound events using methods such as organized lists, tables and tree diagrams. For an event described in everyday language (e.g., "rolling double sixes"), identify the outcomes in the sample space which compose the event.

Real-World Applications for this Standard

Predicting outcomes of board games; Analyzing probabilities in sports events; Calculating chances in card games; Understanding lottery probabilities; Evaluating risks in everyday decisions

Today I Learned

Today, we learned how to represent possible outcomes for events that involve more than one action, like rolling two dice or flipping two coins.

Common Stumbling Blocks

Kids might think that adding probabilities of single events gives the probability of combined events. They also might think all combined events have the same chance of happening.

Quiz Me

- What is a compound event?

- How can we show all possible outcomes?

- What is a tree diagram?

- Can we add probabilities of events?

- Do all compound events have the same chance?

Help Me

We can use lists, tables, and tree diagrams to show all possible outcomes of events, like rolling dice or flipping coins. This helps us understand the chances of different results happening.