

## Probability Models and Event Frequencies

### Today's Standard

7.SP.C7 - Develop a probability model and use it to find probabilities of events. Compare probabilities from a model to observed frequencies; if the agreement is not good, explain possible sources of the discrepancy.

### Real-World Applications for this Standard

Predicting weather patterns; Determining the likelihood of winning a game; Analyzing survey results; Estimating risk in financial investments; Understanding genetics and inheritance patterns

### Today I Learned

Today, we learned about probability models. These are tools that help us predict how likely something is to happen. We also learned how to compare these predictions with what actually happens.

### Common Stumbling Blocks

Sometimes, kids think that what we predict will always match what happens. This isn't always true because chance can make things different. Another mistake is thinking the prediction is wrong if it doesn't match what happens. But sometimes, other things like mistakes or not enough tries can affect the results.

### Quiz Me

- What is a probability model?
- How do you find the probability of something happening?
- Why might what we predict not always match what happens?
- What is one common mistake kids make about probability?
- How can we fix these mistakes?

### Help Me

A probability model helps us guess how likely something is to happen. For example, if you flip a coin, it can help you guess how often it will land on heads or tails. Sometimes, what we guess and what we see are different because of chance or mistakes. By trying many times, our guesses and what we see will start to match better.

