

Cornell Note

Decision Making with Probabilities

Today's Standard

HSS.MD.B5 - (+) Weigh the possible outcomes of a decision by assigning probabilities to payoff values and finding expected values.

Cues	Notes
What is expected value?	Expected value is the average outcome when considering all possible outcomes and their probabilities.
How do you calculate	
probabilities?	Probabilities are calculated by dividing the number of favorable outcomes by the total number of possible outcomes.
Why is it important to weigh	
outcomes?	Weighing outcomes is important to make informed decisions that consider both the payoff and the likelihood of each outcome.
What are common	
misconceptions?	Common misconceptions include thinking higher payoffs are always better and that all outcomes are equally likely.
How can real-world examples	
help?	Real-world examples help illustrate the variability of probabilities and the importance of expected value in decision-making.

Summary

Understanding how to weigh possible outcomes using probabilities and expected values is crucial for informed decision-making. This involves calculating probabilities accurately and recognizing common misconceptions.