

Name \_\_\_\_\_

## Unlocking the Mystery of Conditional Probabilities

### Open-Ended Response Answer Key

1. Understanding conditional probability would be helpful in scenarios like predicting the likelihood of a student passing an exam given their attendance record and study habits.
2. Conditional probability could be used in predicting the outcome of a sports game by considering factors like the teams' previous performances, player injuries, and weather conditions.
3. Understanding conditional probability is important in decision-making because it allows us to make more accurate predictions and assessments based on the conditions present.
4. Conditional probability helps in solving problems involving multiple events by providing a framework for understanding how the likelihood of one event happening depends on the occurrence of another event.

