Name _____

Unlocking the Mystery of Conditional Probabilities

Multiple Choice Questions

1. What is conditional probability?

a) The probability of an event happening without any conditions

b) The probability of an event happening given that another event has already occurred

c) The probability of an event happening with certain conditions

d) The probability of an event happening randomly

2. How is conditional probability calculated?

a) By multiplying the probabilities of both events

b) By adding the probabilities of both events

c) By using a formula that involves dividing the probability of both events by the probability of the given condition

d) By guessing randomly

3. In the marble example, what is the conditional probability of picking a blue marble given that the first marble picked was red?

a) The same as the unconditional probability of picking a blue marble

b) Greater than the unconditional probability of picking a blue marble

c) Equal to the probability of picking a red marble

d) Less than the unconditional probability of picking a blue marble

4. When does conditional probability come into play?

a) When there are no conditions

b) When there is only one event

c) When the probability of an event depends on another event occurring

d) When guessing randomly

5. What does the formula for conditional probability involve?

a) Dividing the probability of both events by the probability of the given condition

b) Adding the probabilities of both events

c) Multiplying the probabilities of both events

d) Ignoring the given condition