

## **Probability Quiz PDF**

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What type of probability is based on actual experiments or historical data?
<ul><li>Theoretical Probability</li><li>Subjectative Probability</li><li>Objective Probability</li><li>Experimental Probability</li></ul>
What is the probability of rolling a 3 on a fair six-sided die?
<ul><li>○ 1/6</li><li>○ 1/2</li><li>○ 1/4</li><li>○ 1/3</li></ul>
Which of the following events are mutually exclusive?
<ul> <li>Rolling a die and getting an even number or a number greater than 3</li> <li>Flipping a coin and getting heads or tails</li> <li>Selecting a king or a queen from a deck of cards</li> <li>Drawing a red card or a black card from a deck</li> </ul>
What is the significance of the law of large numbers in probability?

If two events are independent, what is the probability of both occurring?



○ P(A) + P(B)					
○ P(A) - P(B)					
O P(A) / P(B)					
$\bigcirc$ P(A) × P(B)					
Discuss the commo	n misconceptions p	people have ab	out probability	and how they car	n be
					//
					**)
What is the probabil	ity of drawing an a	ce from a stand	dard deck of car	ds?	
<u> </u>					
<u> </u>					
<b>○ 4/52</b>					
<u></u>					
What is the probabil	ity of an event that	is certain to ha	appen?		
	ny or an overn mar		<b>дрро</b>		
O 0					
○ 1					
○ 2 ○ 2.5					
O.5					
Explain how the con	cept of probability	is used in risk	assessment an	d management.	
					//

What are the properties of mutually exclusive events?



<ul><li>☐ They cannot occur at the same time</li><li>☐ They are independent</li><li>☐ P(A or B) = P(A) + P(B)</li></ul>				
$\square$ P(A and B) = 0				
Explain the difference between theoretical and experimental probability.				
	1			
Describe a real-world scenario where the binomial distribution could be applied.				
Which statements are true about the complement of an event?				
It is the event that does not occur				
<ul><li>☐ It includes all outcomes in the sample space</li><li>☐ It is the same as the event itself</li></ul>				
P(Not A) = 1 - P(A)				
Which of the following are continuous probability distributions?				
■ Normal Distribution				
Exponential Distribution				
Poisson Distribution Binomial Distribution				

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How can probability be used in decision-making processes? Provide an example.



Which distribution is used for modeling the number of successes in a fixed number of trials?
<ul> <li>Normal Distribution</li> <li>Poisson Distribution</li> <li>Exponential Distribution</li> <li>Binomial Distribution</li> </ul>
Which of the following are characteristics of a normal distribution?
Symmetrical  Mean = Median = Mode  Skewness to the right  Bell-shaped
Which of the following are examples of discrete probability distributions?
<ul><li>□ Binomial Distribution</li><li>□ Poisson Distribution</li><li>□ Exponential Distribution</li><li>□ Normal Distribution</li></ul>
Which of the following are true about independent events?
<ul> <li>□ The occurrence of one affects the other</li> <li>□ They can occur simultaneously</li> <li>□ P(A or B) = P(A) + P(B) - P(A and B)</li> <li>□ P(A and B) = P(A) × P(B)</li> </ul>
Which rule is used to calculate the probability of two independent events both occurring?
<ul><li>Addition Rule</li><li>Complementary Rule</li><li>Subtraction Rule</li></ul>

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O Multiplication Rule