Results sarda, sanjit

This assessment has been regraded. Questions 2, 5 have been affected.



12 Out of 12 points **04:04**Time for this attempt

Your Answers: 1/1 point Use your intuition to decide which the following sets of events are likely to be independent. Event A: A randomly selected person is married with no children. Event B: A randomly selected person opposes a tax credit for children. Event A: The randomly selected carton of milk you purchased from the store is sour. Event B: Your car won't start on a randomly selected morning. Event A: You roll a number larger than four on a die. Event B: Rolling a six on a die. Event A: Drawing a club from a deck of cards. Event B: Drawing a card with a black symbol from a deck of cards. This question has been regraded. Previous score 1/1 point Regrade score 1/1 point If two events A and B are mutually exclusive, which of the following statements is true? P(A) + P(B) > P(A or B)A and B are independent Correct P(A|B) = 0Answer-

3 1/1 point

P(A|B) = 0 P(A)P(B) = 0

 \bigcirc P(A and B) = P(A)P(B)

Many people who use coconut oil claim it helps with hair care, skin care, stress relief, weight loss, and a boosted immune system. Can we conclude that the use of coconut oil causes these health benefits?

- Yes, the claims are from experiments and give us a good comparison group to find health differences.
- No, the claims can be lies, so we do not have evidence of the health benefits
- Yes, the claims are true stories, so we do have evidence of the health benefits.
- No, the claims are anecdotes and do not give us a comparison group to find health differences.

1/1 poin

If 20 babies are born, how often are there 8 or less male babies? Assume that the gender of a baby is a random event with equal chance. Which of the following experiments would not simulate this situation?

Dall a dia twanty timan Dagianata a 1 2 ar 2 ta maan "famala" and a 1 5 ar 6 ta maan "mala"

Roll a die twenty times	s. Designate a 1, 2, 01 3	илеан тетпате апи а	4, 0, 0) o to mean male .		
Randomly draw a digit from 1-10, repeat 20 times. Designate even numbers to mean "female" and odd numbers to mean "male".					
Flip a coin twenty time	s, Designate a head to m	nean "female" and a tail	to mean "male".		
✓	l simulate the situation				
Non of these will simul	ate the situation				
Trong these will similar					
This question ha	as been regraded.				
5 Previous score 1/1p	oint Regrade score 1	/1 point			
Which of the following equations can NOT be used to verify that two events are independent?					
P(A and B) = P(A)P(B)		,			
P(A B) = P(A)					
\bigvee P(A or B) = P(A) + P(B)					
P(B A) = P(B)					
6 1/1 point					
			cipants are allowed to choose whether they want to go on a vegetarian diet or follow a traditional		
low-calorie diet that includes some meat. Half of the people choose the vegetarian diet, and half choose to be in the control group and continue to eat meat. The study found that there is greater weight loss in the vegetarian group.					
Which of the following is co	Which of the following is correct about the study?				
We can not conclude that vegetarian diet helps people lose more weight because the sample size is too small.					
The result of the study	is not reliable because th	nere is no control group.			
The result of the study is not reliable because there is no randomization and the confounding variables are not controlled.					
We can conclude that vegetarian diet helps people lose more weight because this is an experimental study.					
			,		
7 1/1 point					
A sample of 130 adults wer			college. The table shows the results for men and women.		
Yes	Men 45	Women 30			
No	35	20	-		
What is the probability tha	t a sampled adult is wom	an OR worked part time	while at college?		
<u>23.1%</u>					
96.2%					
✓					
O 57.7%					
8 1/1 point					
Three events A, B and C are is 0.18.	e independent to each ot	ther. It is known the prob	pability of event A occurring is 0.2, and the probability of all three event occurring at the same time		
	What is probability of event B and C occurring at the same time? (hint: multiplication rule for independent events)				
O.36					
O.16					
✓ 0.9					
Cannot be determined					

Which of the following is an example of theoretical probability? (Select all that apply)
A homeowner notes that five out of seven days the newspaper arrives before 5 pm. He concludes that the probability that the newspaper will arrive before 5 pm
tomorrow is about 71%.
At a carnival shell game the player can pay three dollars and choose the shell that he or she believes is hiding the prize. There are four shells that are thoroughly mixed up after each guess. The player concludes that there is a one in four chance of randomly picking the winning shell.
A bag contains 2 red marbles, 8 blue marbles, and 4 green marbles. Adam randomly selected a marble from the bag and repeated 50 times. He counted the number of times a blue marble is selected, and claimed that the probability of choosing a blue marble is 40%.
A six-sided die is rolled and a coin is tossed. The probability of getting a tail on the coin and a 2 on the die is 8.3%.
10 1/1point
Suppose that a recent poll of American households with a car found that, 39% owned a sedan, 33% owned a van, and 7% owned a sports car. Suppose that three households are selected independently, what is the probability that all of the three randomly selected households own a van?
O.330
O.964
O.059
11 1/1 point
Consider the following statement: "a study found that people who consume more alcohol are more likely to die at an early age"
Which of the following is a possible confounding variable in this study?
○ Smoking
Gender
○ Socioeconomic status
○ None of these
✓
12 1/1 point
A senator conducted a poll in her state by calling 100 people whose names were randomly sampled from the phone book (mobile phones and unlisted numbers aren't in phone books). The senator's office called those numbers until they got a response from all 100 people chosen. What bias may exist in the study?
○ Volunteer
○ No obvious bias
✓ O Undercoverage
Nonresponse