



TO PASS 80% or higher

Keep Learning

grade 83.33%

Probability (basic and Intermediate) Graded Quiz

LATEST SUBMISSION GRADE 83.33%			
1.	What additional statement, added to the three below, forms a probability distribution?	1/1 point	
	(1) I missed only my first class today		
	(2) I missed only my second class today		
	(3) I missed both my first and second class today		
	✓ Correct		
2.	My friend takes 10 cards at random from a 52-card deck, and places them in a box. Then he puts the other 42 cards in a second, identical box. He hands me one of the two boxes and asks me to draw out the top card. What is the probability that the first card I draw will be the Ace of Spades?	1/1 point	
	✓ Correct		
3.	I will go sailing today if it does not rain. Are the following two statements Independent or dependent?	1 / 1 point	
	(1) "I will go sailing today"		
	(2) "It will not rain today"		
	✓ Correct		
4.	The probability that I will go sailing today AND the fair six-sided die will come up even on the next roll is .3.	1/1 point	
	If these events are independent, what is the probability that I will go sailing today?		
	✓ Correct		
5.	I have two coins. One is fair, and has a probability of coming up heads of.5. The second is bent, and has a probability of coming up heads of.75. If I was each acin asset what is the probability that at least one of the acins will come up tails?	0 / 1 point	
	If I toss each coin once, what is the probability that at least one of the coins will come up tails?		
	1		
	! Incorrect		
6.	What is the probability, when drawing 5 cards from a fair 52-card deck, of drawing a "full house" (three of a kind and a pair) in the form AAABB?	1/1 point	
	✓ Correct		
7.	If it rains, I do not go sailing. It rains 10% of days; I go sailing 3% of days.	1 / 1 point	
	If it does not rain, what is the (conditional) probability that I go sailing?		
	Written "n/I go sailing it does not rain)"?		

	✓ Correct	
8.	I am at my office AND not working 2% of the time. I am at my office 10% of the time. What is the conditional probability that I am not working, if I am at my office?	1/1 point
	✓ Correct	
9.	The factory quality control department discovers that the conditional probability of making a manufacturing mistake in its precision ball bearing production is 4% on Tuesday, 4% on Wednesday, 4% on Thursday, 8% on Monday, and 12% on Friday.	1 / 1 point
	The Company manufactures an equal amount of ball bearings (20%) on each weekday. What is the probability that a defective ball bearing was manufactured on a Friday?	
	✓ Correct	
10.	An Urn contains two white marbles and one black marble. A marble is drawn from the Urn without replacement and put aside without my seeing it. Then a second marble is drawn, and it is white.	1/1 point
	What is the probability that the unknown removed marble is white, and what is the probability that it is black?	
	✓ Correct	
11.	. What is the probability, if I flip a fair coin with heads and tails ten times in a row, that I get at least 8 heads?	1/1 point
	✓ Correct	
12.	- Suppose I have either a fair coin or a bent coin, and I don't know which. The bent coin has a 60% probability of coming up heads.	0 / 1 point
	I throw the coin ten times and it comes up heads 8 times. What is the probability I have the fair coin vs. the probability I have the bent coin?	
	Assume at the outset there is an equal $(.5, .5)$ prior probability of either coin.	
	*Please note that in order to fit the entire formula in the feedback, probability has been abbreviated to "prob."	
	! Incorrect	