Probability (basic and Intermediate) Graded Quiz

CALIFICACIÓN DEL ÚLTIMO ENVÍO 91.66%

1.	What additional statement, added to the three below, forms a probability distribution?	1/1 puntos
	(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	
	✓ Correcto	
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 puntos
	✓ Correcto	
3.	I will go sailing today if it does not rain. Are the following two statements Independent or dependent?	1/1 puntos
	(1) "I will go sailing today"	
	(2) "It will not rain today"	
	✓ Correcto	
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 puntos
	If these events are independent, what is the probability that I will go sailing today?	
	✓ Correcto	



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 puntos

✓ Correcto

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.

1/1 puntos

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."

