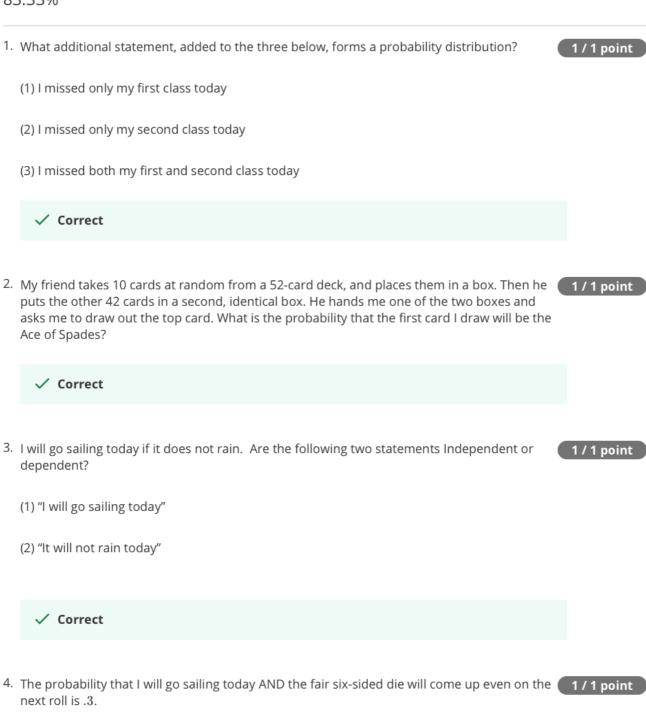
**GRADE** 83.33%

## Probability (basic and Intermediate) Graded Quiz

## LATEST SUBMISSION GRADE

✓ Correct

83.33%



If these events are independent, what is the probability that I will go sailing today?

	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 toss each coin once, what is the probability that at least one of the coins will come up tails?	1 / 1 point
	✓ Correct	
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?	0 / 1 point
	! Incorrect	
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 "p(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.	0 / 1 point
	What is the probability that the unknown removed marble is white, and what is the probability that it is black?	
	! Incorrect	

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.

0 / 1 point

What is the probability that the unknown removed marble is white, and what is the probability that it is black?

## Incorrect

11. What is the probability, if I flip a fair coin with heads and tails ten times in a row, that I get at 1/1 point least 8 heads?



12. Suppose I have either a fair coin or a bent coin, and I don't know which. The bent coin has a 1/1 point 60% probability of coming up heads.

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."

