



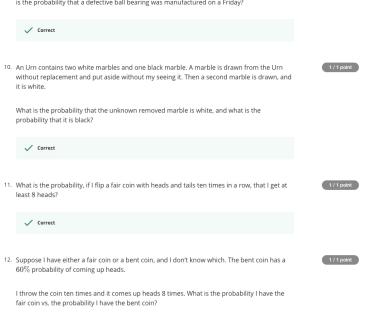


grade 100%

## Probability (basic and Intermediate) Graded Quiz

LATEST SUBMISSION GRADE  100%		
1.	What additional statement, added to the three below, forms a probability distribution?  (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	1/1 point
	✓ 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 toss each coin once, what is the probability that at least one of the coins will come up tails?	1/1 point
	✓ Correct	
б.	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. If it does not rain, what is the (conditional) probability that I go sailing?	1/1 point
	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
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?



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."

✓ Correct