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Probability (basic and Intermediate) Graded Quiz

NOTE DE LA SOUMISSION LA PLUS RÉCENTE

83.33%

1. What additional statement, added to the three below, forms a probability distribution?

0 / 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

! Incorrect

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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

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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.

1 / 1 point

If I toss each coin once, what is the probability that at least one of the coins will come up tails?

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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 "p(I go sailing | it does not rain)"?

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✓ 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?

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✓ 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

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✓ 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