

✓ **Félicitations ! Vous avez réussi !**

Points Révisés: 40 % de 40%

Commenter & Répondre

Notes: 91.66%

Probability (basic and Intermediate) Graded Quiz

NOTE DE LA COMMISSION LA PLUS RÉCENTE
91.66%

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

0 / 1 point

- (1) missed only my first class today
- (2) missed only my second class today
- (3) 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 asks the other 42 cards in a second box. He then asks the third box if he has one of those boxes and asks you to pick one card from your pack. What is the probability you will pick the card of the first box for the Ace of Spades?

0 / 1 point

✓ **Correct**

3. I will go sailing today if it does not rain. Are the following two statements independent or dependent?

0 / 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 .38.

0 / 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.

0 / 1 point

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

! **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 this form: 0.444)

0 / 1 point

✓ **Correct**

7. If it rains, I do not go sailing. It rains 10% of days, I go sailing 3% of days.

0 / 1 point

If it does not rain, what is the (conditional) probability that I go sailing?

Written "je" go sailing | it does not rain?"

✓ **Correct**

8. Sam at my office is not working 20% of the time. Sam at my office is 10% of the time. What is the conditional probability that Sam is not working, if Sam is my office?

0 / 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, 5% on Monday, and 12% on Friday.

0 / 1 point

The Company manufactures an equal amount of ball bearings (2005 on each weekday. What is the probability that a defective ball bearing was manufactured on a Friday?

✓ **Correct**