✓ **Herzlichen Glückwunsch! Sie haben bestanden!**
ZUM BESTEHEN 80 % oder höher

Lernen Sie weiter

BEWERTUNG
91,66 %

Probability (basic and Intermediate) Graded Quiz

NEUESTE EINREICHUNGSBEWERTUNG
91.66%

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

(2) I missed only my second class today

(3) I missed both my first and second class today

✓ Richtig

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 Punkten`

✓ Richtig

(1) I will go sailing today

(2) "It will not rain today"

! Falsch

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 Punkten`

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

✓ Richtig

what is the probability that at least one of the coins will come up tails?)\end {align}

✓ Richtig

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 Punkten`

✓ Richtig

7. If it rains, I do not go sailing. It rains 10% of days; I go sailing 3% of days. `1 / 1 Punkten`

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

✓ Richtig

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 Punkten`

✓ Richtig

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 Punkten`

✓ Richtig

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 Punkten`

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

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 Punkten`

✓ Richtig

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 Punkten`

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."