Quiz 1
Checkboxes

1/1 point (graded)
What is probability and statistics useful for?

- ☑ To quantify uncertainty ✔
- ☐ To find exact solutions to mathematical problems
- ☑ To make predictions about future events ✔

✔

Answer
Correct:
Video: Why Probability and Statistics

Submit

ⓘ Answers are displayed within the problem

Checkboxes

1/1 point (graded)
Which of the following problems can best be solved with probability and statistics?

- ☑ Predicting the number of rainy days in April ✔

☐ Finding the interest on a 30-year fixed rate mortgage

☑ Estimating your potential winnings in a game of Blackjack ✔

☐ Finding the amount of turf required to cover a football field

✔

Answer
Correct:
Video: Why Probability and Statistics

Submit

ℹ Answers are displayed within the problem

Multiple Choice

1/1 point (graded)
Suppose a coin is tossed 1000 times and comes up heads 610 times. Is the coin biased?

⦿ Yes, with very high probability ✔

◯ Unclear

Answer
Correct: Video: What is Probability

Submit

ℹ Answers are displayed within the problem

Multiple Choice

1/1 point (graded)

What is the probability of drawing a Queen from a deck of 52 cards?

- ○ $\frac{1}{52}$

- ◉ $\frac{4}{52}$ ✔

- ○ $\frac{1}{2}$

- ○ $\frac{2}{52}$

Answer
Correct: Video: What is Probability

Submit

ⓘ Answers are displayed within the problem

Checkboxes

1/1 point (graded)
Which of the following describe the differences between probability and statistics?

- ☑ Probability predicts what will happen. Statistics works with what has already happened. ✔

- ☐ Probability works with observed variables. Statistics is modeled by random variables.

- ☐ Probability requires existing data. Statistics requires underlying models.

✔

Answer
Correct:
Video: What is Statistics

Submit

True or False

1/1 point (graded)

If we repeat an experiment many times, the long term frequencies of the outcomes converge to the probabilities.

- ◉ True ✔
- ○ False

Answer
Correct: Video: History of Probability and Statistics

Submit