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# 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

## 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 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

# Multiple Choice

1/1 point (graded)

What is the probability of drawing a Queen from a deck of  ${f 52}$  cards?





### Answer

Correct: Video: What is Probability

Submit

## 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

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