

✖ Question 1 of 18

Which type of trendline should you choose if you are not sure which kind of data you have?

polynomial

exponential

✖ logarithmic

✓ linear

✓ Question 2 of 18

If 15 percent of cars are blue and an observer's observation is 80 percent accurate, what is the probability that a car is, in fact, blue when the witness reports it as blue?

0.85

✓ 0.41

0.32

0.65

✓ Question 3 of 18

Bayes' rule combines accuracy, false positives, and \_\_\_\_\_ to determine the probability of a result.

sample deviation

population size

average distribution

✓ base rate

✖ Question 4 of 18

Which two sets of data have perfect correlation?

{1, 2, 3, 4, 5} {5, 4, 3, 2, 1}

✖ {1, 1, 1, 1, } {0, 0, 0, 0, 0}

✓ {1, 2, 3, 4, 5} {1, 2, 3, 4, 5}

{1, 2, 3, 4, 5} {-1, -2, -3, -4, -5}

✓ Question 5 of 18

Why do the functions COVARIANCE.P and COVARIANCE.S return different values when using the same data?

COVARIANCE.P calculates the average instead of the total.

✓ COVARIANCE.S subtracts one from the number of data pairs.

COVARIANCE.P accounts for the standard deviation.

COVARIANCE.S uses the number of data pairs plus one.

✓ Question 6 of 18

Which formula will return the correlation coefficient between data in cells A1:A5 and B1:B5?

`=CORRELATE(B1:B5,A1:A5)`

✓ `=CORREL(A1:A5,B1:B5)`

`=CORRELATE(A1:B1,A5:B5)`

`=CORREL(A1,B1)`

✓ Question 7 of 18

In a histogram chart, what is the name of the container that holds the value ranges?

object

bucket

✓ bin

box

✓ Question 8 of 18

To calculate a margin of error, you multiply the standard error by the number of standard deviations from the mean, which is also called a z-score.

variance coefficient

determination of accuracy

✓ z-score

d-factor

✓ Question 9 of 18

If the covariance value is     , it means the data sets tend to move in the same direction.

0

2

✓ positive

negative

✓ Question 10 of 18

Which Excel function returns the most common value in a list of values?

AVERAGE

✓ MODE

MEAN

MEDIAN

✗ Question 11 of 18

When determining an exponential distribution, how is the value for lambda calculated?

by using the probability that an order will arrive within a given time

✓ one divided by the average time in which a task occurs

the average time in which a task occurs multiplied by the standard deviation

✗ by using the probability that a task will be completed

✗ Question 12 of 18

What is an example of something a Poisson distribution will calculate?

the number of customer orders that will be filled correctly

✓ the number of customers who will come into a store during a given time period

the average time a customer will spend on a website

✗ the probability that a delivery will arrive at the customer's location on time

✓ Question 13 of 18

How are variance and standard deviation related?

✓ Standard deviation is the square root of variance.

Variance minus the average equals the standard deviation.

One minus the standard deviation equals the variance.

Variance is the natural logarithm of standard deviation.

✗ Question 14 of 18

What percentage of values lie above quartile 3?

75%

✗ 50%

✓ 25%

none of these answers

✓ Question 15 of 18

When using BINOM.DIST to calculate a probability mass function, which argument should be set to FALSE?

number\_s

probability\_s

trials

✓ cumulative

✓ Question 16 of 18

Which scenario is an example of a nondirectional hypothesis?

As the outside temperature drops, fewer people go to the beach.

A gallon of milk will get colder as the amount of time the milk is in the refrigerator increases.

✓ A student's grade will change as the amount of study time increases.

The longer employees work at a company, the more money they will make.

✓ Question 17 of 18

Which Excel function returns the probability that a specific value occurs within the normal distribution?

NORMDIST

NORM.INV

✓ NORM.DIST

NORMSDIST

✓ Question 18 of 18

A person flips a coin and draws a card from a card deck containing 26 black and 26 red cards. What is the probability that the coin will land on heads and the card that is drawn will be black? ✓

1

0.1

0.5

✓ 0.25