What is a parameter?

Please choose the correct answer from the following choices, and then select the submit answer button.

Answer choices

a number that describes the entire population

the value for every single individual in a population

a number describing the individuals in a sample

a number that summarizes information from a sample

Which of the following is the statistical name for the distribution of the number of friends of all Facebook pages?

Please choose the correct answer from the following choices, and then select the submit answer button.

Answer choices

simple random sample

sampling distribution

distribution of data in a sample

population distribution

For random samples of size 100 from a population, the standard deviation of the sample means from all possible samples is \_\_\_\_\_\_\_\_ \_\_\_\_\_ the population standard deviation.

Please choose the correct answer from the following choices, and then select the submit answer button.

Answer choices

cannot be compared to (with the information given)

greater than

equal to

less than

What allows us to use the standard normal distribution to compute probabilities on x-bar when we don't know the shape of the population?

Please choose the correct answer from the following choices, and then select the submit answer button.

Answer choices

The central limit theorem

The law of large numbers

Facts about mean and standard deviation of the sampling distribution of x-bar

None of the above

When studying the characteristics of a large private university, we find the average ACT score for all incoming freshman at that university is 27. The number 27 is a \_\_\_\_\_\_\_\_\_\_ (parameter or statistic).

A gambler at a casino decided to play a certain card game. The probability that the gambler will win money at the game is 0.45. The probability that he will lose money is 0.55.

According to the law of large numbers, in the long run the gambler will end up with \_\_\_\_\_\_\_\_ winnings when playing against the house.

Please choose the correct answer from the following choices, and then select the submit answer button.

Answer choices

exactly 0

negative

Since game is random, there is no way to tell what the winnings will be.

positive

Suppose George took a random sample of size 35 from a population with mean μ = 10 and suppose Jane took a random sample of size 400 from that same population. The sample that \_\_\_\_\_\_\_ took should have a higher probability that the sample mean is close to μ = 10.

For random samples of size 16 from a population with mean μ = 48 and standard deviation σ = 8, the standard deviation of the sampling distribution of x-bar is 8/\_\_\_\_. Fill in the value for the denominator.

​​Using technology or other random procedures to imitate chance behavior is called \_\_\_\_\_\_\_\_\_\_\_\_\_.

Please type the correct answer in the following input field, and then select the submit answer button or press the enter key when finished.

The standard deviation of the sampling distribution of x-bar gets \_\_\_\_\_\_\_\_ as the sample size decreases