

✓ Congratulations! You passed!

Grade received 100% To pass 80% or higher

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1. What Python function enables a data professional to compute the standard deviation term in the sample standard error of a mean?

1 / 1 point

- ☐ `pandas.DataFrame.mode()`
- ☐ `pandas.DataFrame.median()`
- ☐ `pandas.DataFrame.hist()`
- ☒ `pandas.DataFrame.std()`

✓ Correct

The `pandas.DataFrame.std()` function, which returns the standard deviation, enables a data professional to compute the standard deviation term in the sample standard error of a mean. Sample standard error is the sample standard deviation divided by the square root of the sample size.

2. A data professional is constructing a confidence interval of the sample mean using the function `scipy.stats.norm.interval()`. What arguments should they specify? Select all that apply.

1 / 1 point

- ☒ `loc`, which they set to the sample mean

✓ Correct

They should specify `confidence` (alpha), which they set to the confidence level; `loc`, which they set to the sample mean; and `scale`, which they set to the sample standard error.

- ☒ `confidence` (a.k.a. "alpha"), which they set to the confidence level

✓ Correct

They should specify `confidence` (alpha), which they set to the confidence level; `loc`, which they set to the sample mean; and `scale`, which they set to the sample standard error.

- ☒ `scale`, which they set to the sample standard error

✓ Correct

They should specify `confidence` (alpha), which they set to the confidence level; `loc`, which they set to the sample mean; and `scale`, which they set to the sample standard error.

- ☐ `iqr`, which they set to the interquartile range