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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.hist()`
- ○ `pandas.DataFrame.median()`
- ◉ `pandas.DataFrame.std()`
- ○ `pandas.DataFrame.mode()`

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

- ☑ Alpha, which they set to the confidence level

Correct
They should specify 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
- ☑ Scale, which they set to the sample standard error

Correct
They should specify 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.

- ☑ Loc, which they set to the sample mean

Correct
They should specify 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.