

Adjust for Skewness and Kurtosis in Excel

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Bear with me, as I'm a novice here.

If I have a distribution which is approximately normal, with just a slight skew and kurtosis, can I somehow adjust for that?

Say, I have the following aggregate numbers from the population data, but I don't have the actual detailed data they were generated from:

Mean: 12,210

Standard deviation: 2,080

Skewness: -0.036

Excess Kurtosis: 0.787

If I want to find where 95% of values surrounding the mean lie (is this called the confidence interval for the population mean?), without adjusting for skew and kurtosis, I would use something like:

=NORMINV(0.025, 12210, 2080)

=NORMINV(0.975, 12210, 2080)

...right?

Now, how would I adjust those values for skew and kurtosis?

Again, I'm a novice at this, so please correct me if I've done anything fundamentally wrong.

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