

Professor Bumbledorf conducts an experiment, analyzes the data, and reports:

The 95% confidence interval for the mean ranges from 0.1 to 0.4!



Please mark each of the statements below as “true” or “false”. False means that the statement does not follow logically from Bumbledorf’s result. Also note that all, several, or none of the statements may be correct:

1. The probability that the true mean is greater than 0 is at least 95%. ☐True ☐False
2. The probability that the true mean equals 0 is smaller than 5%. ☐True ☐False
3. The “null hypothesis” that the true mean equals 0 is likely to be incorrect. ☐True ☐False
4. There is a 95% probability that the true mean lies between 0.1 and 0.4. ☐True ☐False
5. We can be 95% confident that the true mean lies between 0.1 and 0.4. ☐True ☐False
6. If we were to repeat the experiment over and over, then 95% of the time the true mean falls between 0.1 and 0.4. ☐True ☐False

Please indicate the level of your statistical experience from 1 (no stats courses taken, no practical experience) to 10 (teaching statistics at a university): _____