

1. Faulkner University typically offers evening classes that should run from 6:00 p.m. to 9:30 p.m. The university-wide average for evening class length, though, is 135 minutes, considerably less than what is expected. The standard deviation for the entire university is 15 minutes. The Birmingham campus of Faulkner University has 144 students, and they feel like they are meeting longer than the average class. Indeed, they are: the typical class length for the Birmingham campus is 160 minutes. Here's the question: Is the longer class length for the Birmingham students significantly different than the overall campus? For it to be significantly higher than average, it must be higher than 95% of the population. Prove whether the students are meeting significantly longer than the rest of the university.

Sample mean of Birmingham students' attendance = _____

Population mean of all Faulkner students' attendance (μ) = _____

Standard deviation (s) = _____

Sample size (n) = _____

Standard error of the mean = _____

z-score = _____

Do you stay significantly longer? Yes _____ No _____

2. Most students attending Faulkner University are older than the typical college entry age of 18. HRM students tend to be even older than the Faulkner average. Your own class of 17 students has an average age of 31.7, with a standard deviation of 6.7. If the average age of all students attending Faulkner at all campuses is 25.25, is your class significantly older? When I mean significantly older, I mean at the 95% level.

Sample mean of your class' age = _____

Population mean of all HRM students' age (μ) = _____

Standard deviation = _____

Sample size (n) = _____

Standard error of the mean = _____

z-score = _____

Is the average age of your HRM class significantly older? Yes _____ No _____