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MA3110: Statistics_V4.0 > Module 4 > Take Quiz 3 > Quiz

Time Remaining: 59 min

Question 1 of 9:

A random sample of 15 cars indicates that the mean MPG is 20.7 miles per gallon. Past studies showed that the standard deviation is 2.1 miles per gallon and the population is normally distributed. Find an 80% confidence interval for the mean MPG.

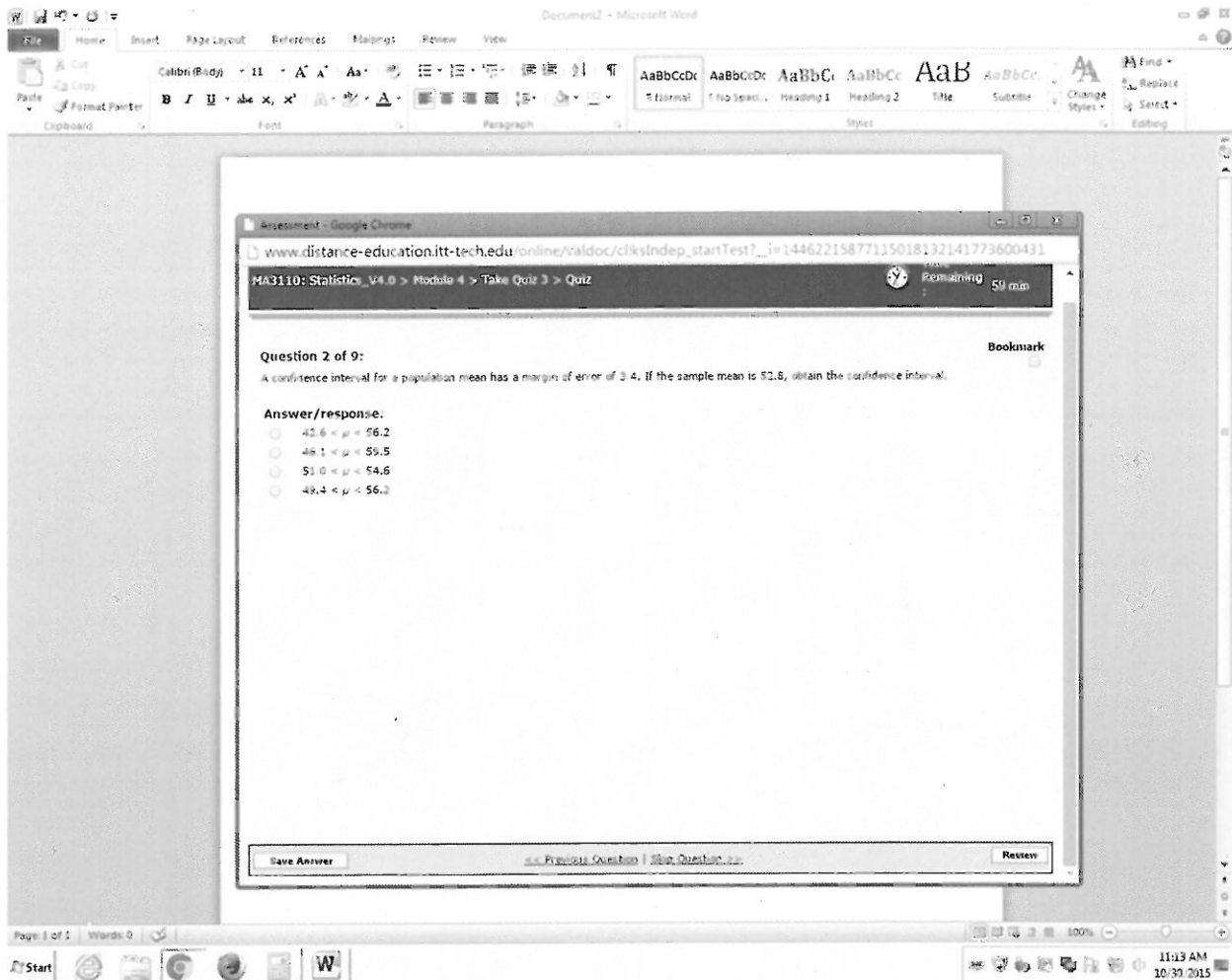
Answer/response:

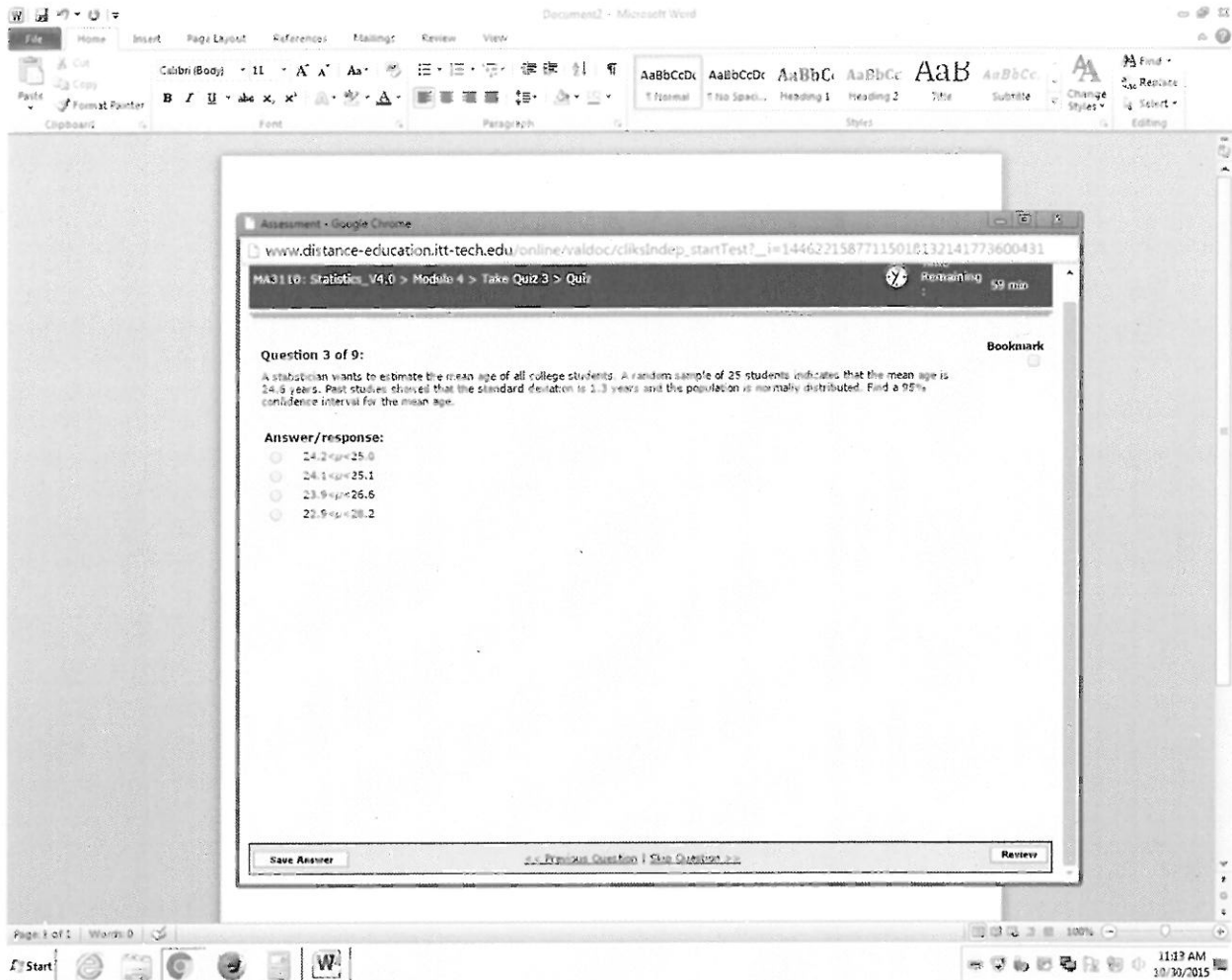
- ☐ 23.9 < μ < 26.6
- ☐ 20.0 < μ < 21.4
- ☐ 20.4 < μ < 21.0
- ☐ 24.1 < μ < 25.1

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MA3110: Statistics V4.0 > Module 4 > Take Quiz 3 > Quiz

Remaining 59 min

Question 4 of 9: Bookmark

A study of the number of hours worked by employees in various occupations each week resulted in a population mean of 45 hours and a standard deviation of 7 hours. If you were to take a sample of 125 individuals, what would you expect to be the mean and standard deviation of your sample?

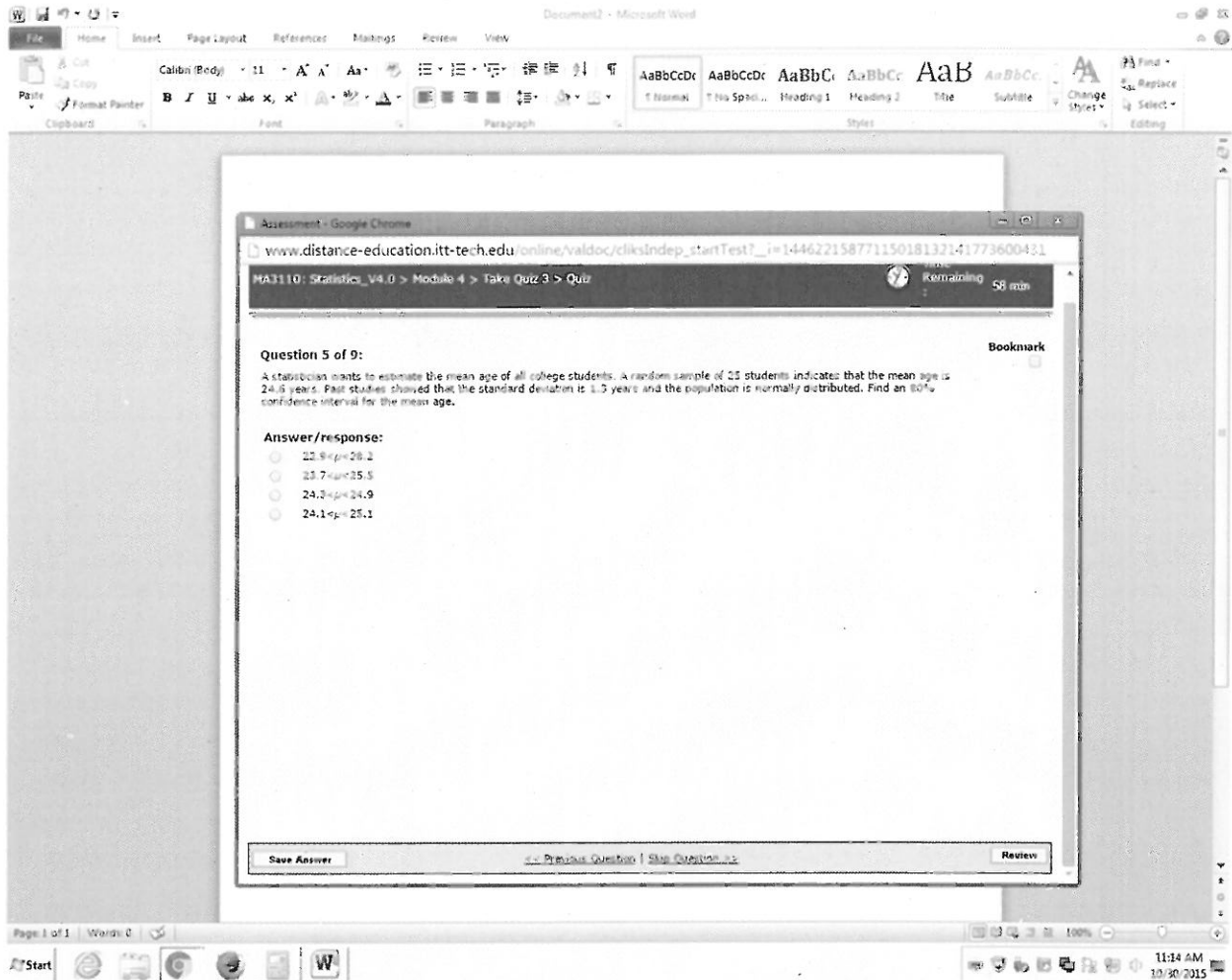
Answer/response:

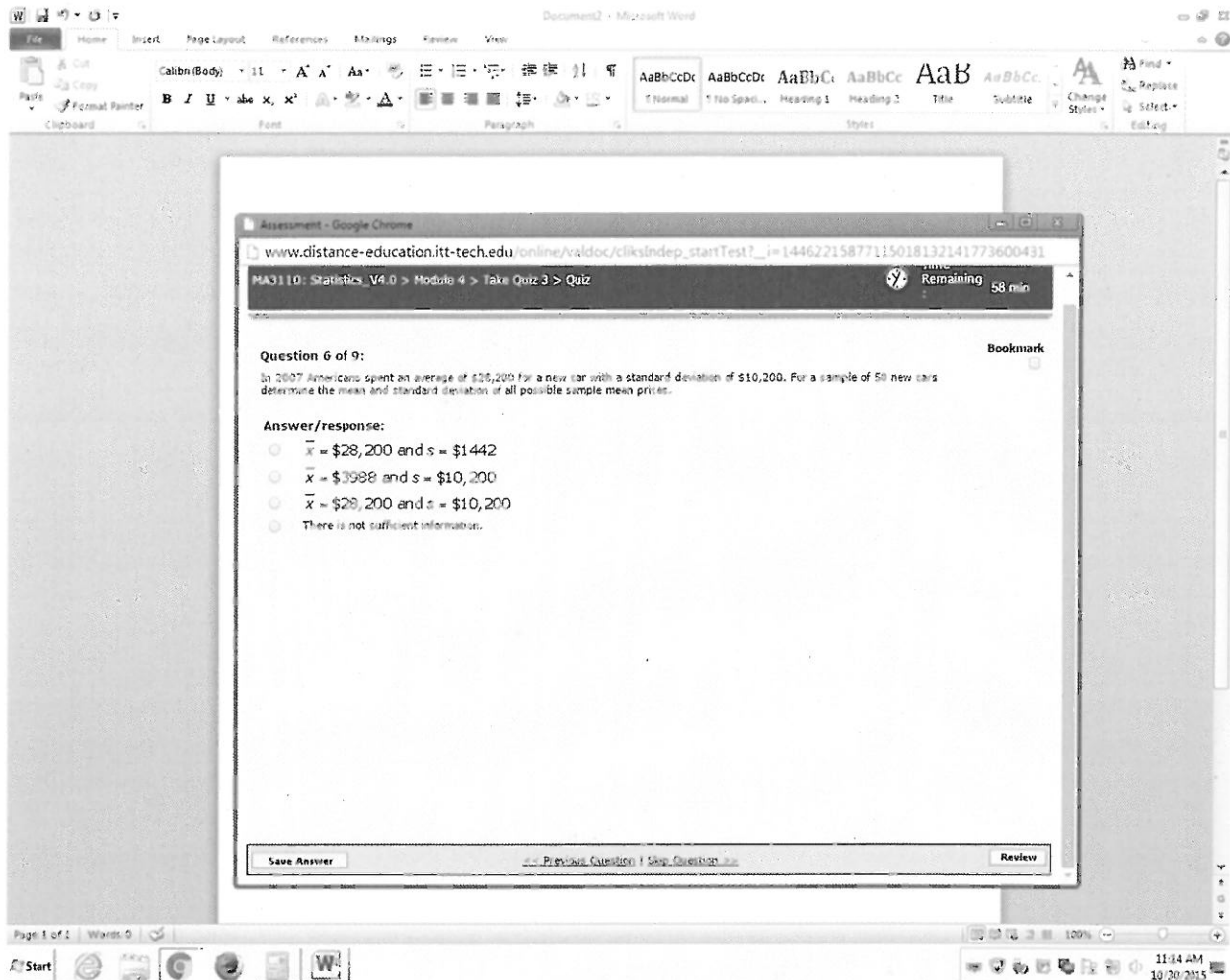
- ☐ $\bar{x} = 3$ and $s = 0.467$
- ☐ $\bar{x} = 45$ and $s = 7$
- ☐ $\bar{x} = 45$ and $s = 0.467$
- ☐ There is insufficient information.

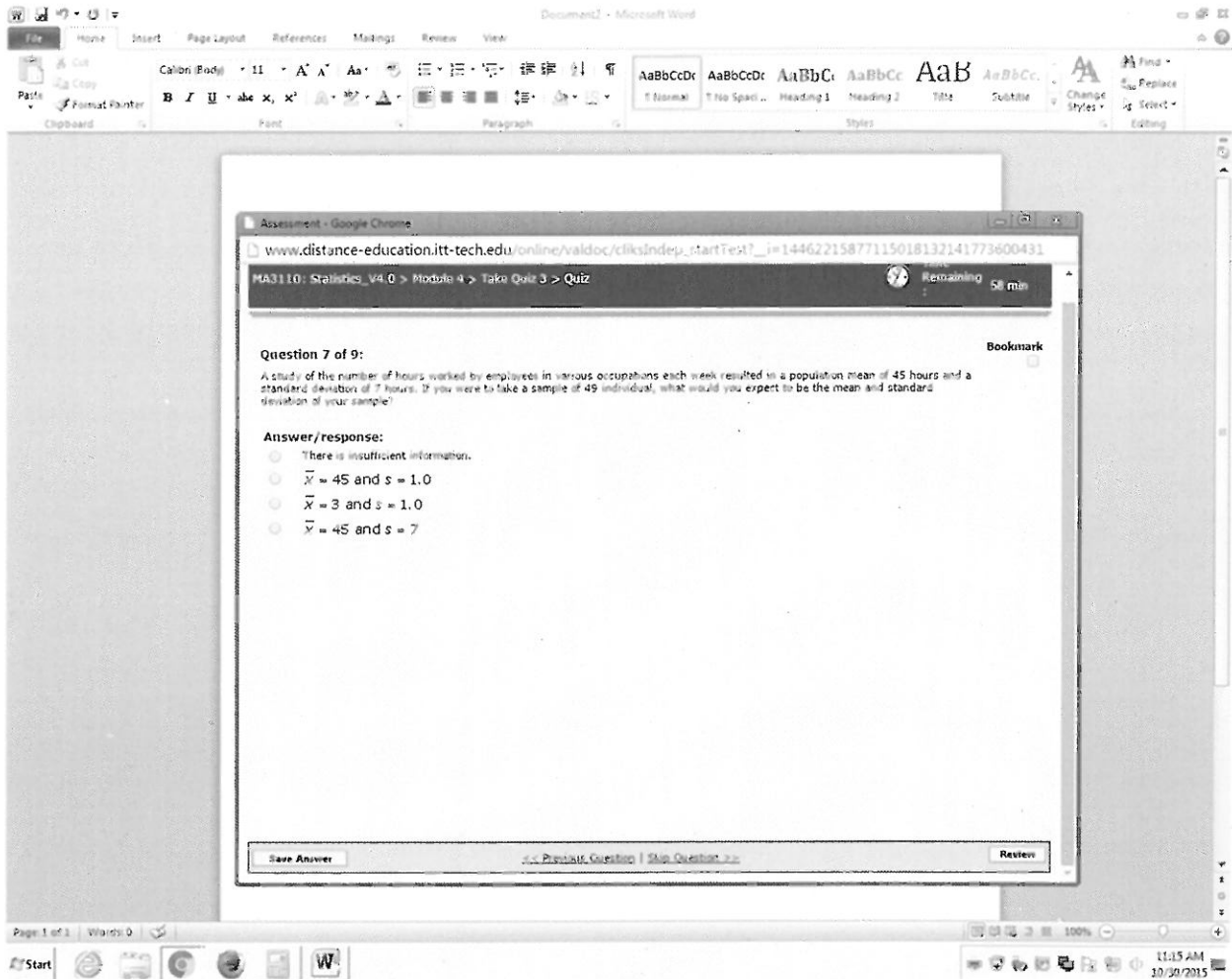
Save Answer [Previous Question](#) [Skip Question](#) [Review](#)

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MA2110: Statistics_V4.0 > Module 4 > Take Quiz 3 > Quiz

Remaining: 58 min

Question 8 of 9: [Bookmark](#)

Assume that adults have credit scores with a mean of $\bar{x} = 715$ and a standard deviation of $\sigma = 45$.
A simple random sample of 50 adults has been selected— $n = 50$ adults. Construct a 90% confidence interval estimate of the mean credit scores of all adults.

Answer/response:

- ☐ 702.3515 < μ < 727.6485
- ☐ Not possible; the necessary requirements are not satisfied.
- ☐ 704.8513 < μ < 725.4687
- ☐ 705.8575 < μ < 724.9425

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