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Instructor Help Student Help

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202301-10557 NR140A Applied Environ Statistics

Tests, Surveys, and Pools

Test Canvas: M6 Group Work submission z-test

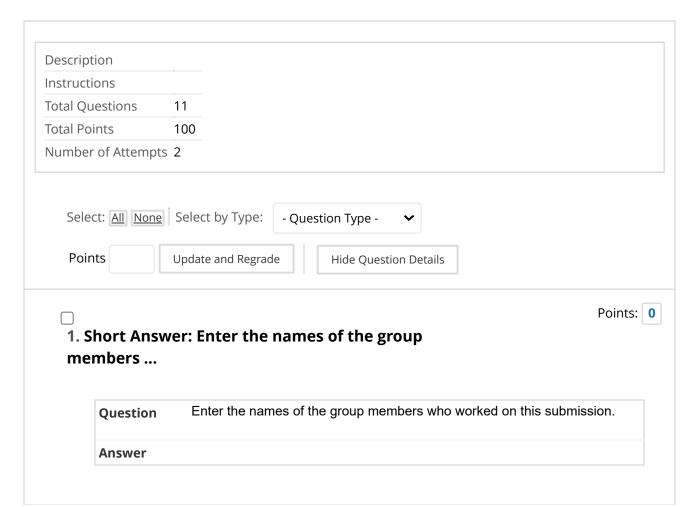
This Test has 2 attempts. For information on editing questions, click **More Help** below. This Test has at least one attempt in progress. Deleting questions has been disabled. The attempts currently in progress are by: Ryan Hawley, Anna Templeton

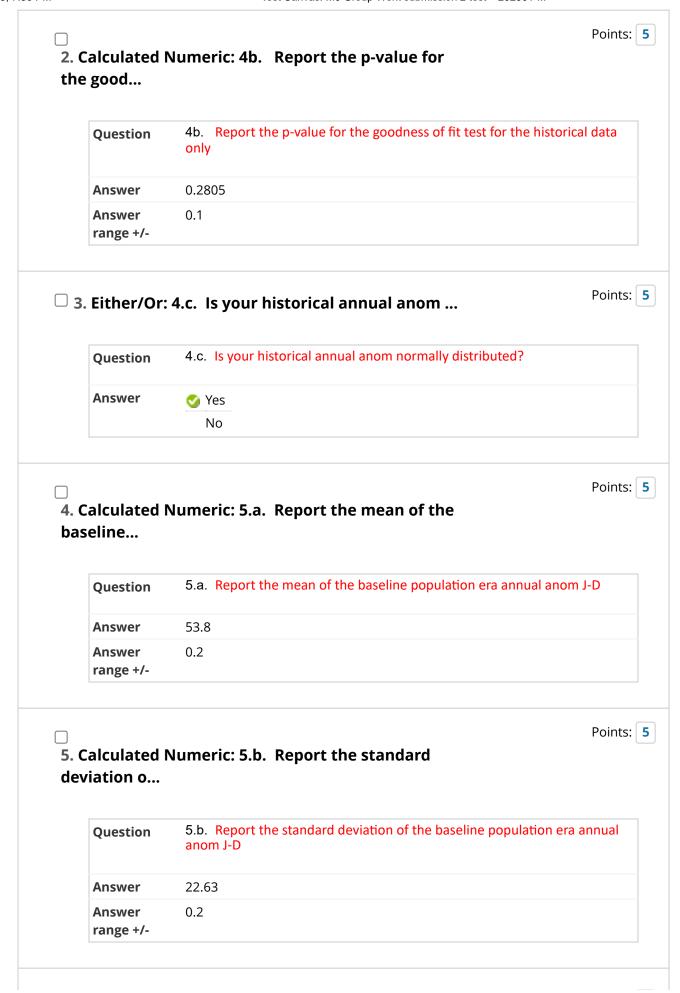
Test Canvas: M6 Group Work submission z-test

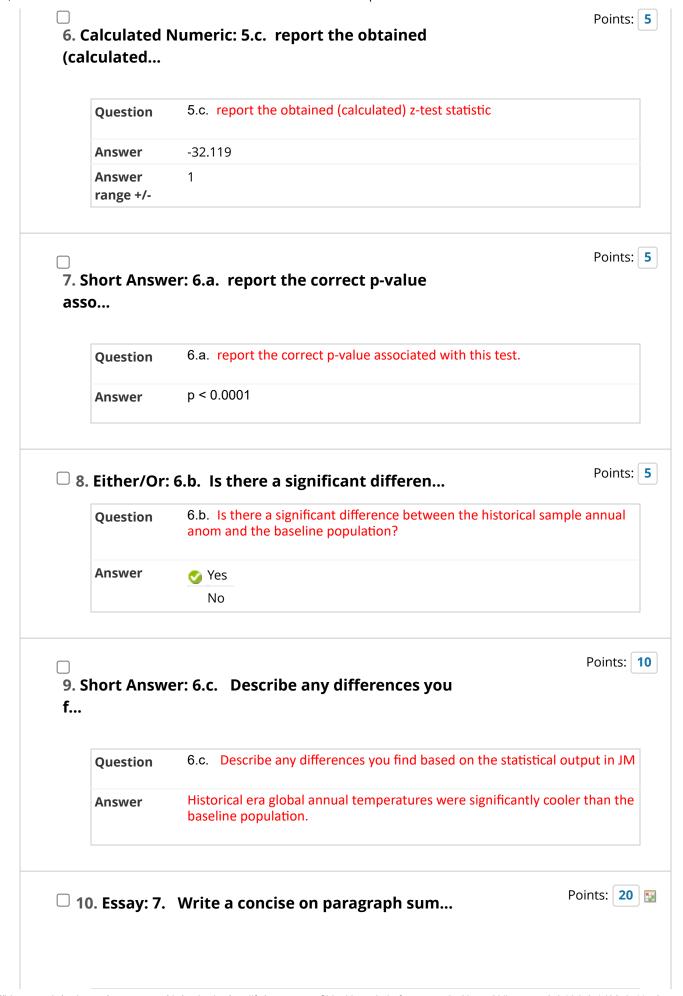
The Test Canvas lets you add, edit, and reorder questions, as well as review a test. More Help

Question Settings

You can edit, delete, or change the point values of test questions on this page. If necessary, test attempts will be regraded after you submit your changes.







Question

7. Write a concise on paragraph summary of this analysis. Note that you've already reported the key information above so this is testing your ability to summarize it all nicely, clearly and in concise, statistical format.

Answer

We hypothesized that there is no difference in mean annual global temperature anomalies for the "historic era" (1880 – 1980) and a baseline population (1981-2010) annual temperature anomalies. A two-tailed, one sample z-test found that there is a significant difference between the Anthropocene and baseline eras (z(101)=-32.119, p<0.0001). Historical era global annual temperatures were significantly cooler than the baseline population. This matches global change models predictions of increased temperatures and indicates that we may have entered a different climate

☐ 11. Essay: 8. Write a concise on paragraph summ...

Points: 35



Question

8. Write a concise on paragraph summary of the Anthropocene sample mean comparison to the baseline population.

Answer

Note that 5 points are removed for each component of the following example response that is missing or incorrect. This includes context and relevant data information, hypothesis, type of test, significance of results, ztest statistic value, p-value, proper format for statistical shorthand, and interpretation of some sort.

Example Answer:

We hypothesized that the mean annual global temperature anomalies from the "Anthropocene era" (2011-2017) were significantly higher than a baseline era (1981-2010). A one-tailed, One Sample Z-test confirmed our hypothesis and revealed that temperatures were significantly higher in the Anthropocene era [z(7)=4.81, p<0.0001]. This result supports the growing consensus among scientists that the global climate is changing rapidly due to human activities.

Select: All None | Select by Type: - Question Type -**Points** Update and Regrade Hide Question Details

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