Two sample key

UNK Stats

2025-11-10

NOTE: Don't forget to write down your *t*-values, *df*, and *p* values in your answer. Your full sentence conclusion should relate back to the original hypothesis.

This is a minimal document to guide you; data other than *p* have been omitted to not bias you on your approaches.

Question 1

The test is significant ($p = 0.001$).

The test statistic is -4.03.

Question 2

The test is not significant ($p = 0.20$).

The test statistic is -1.32.

Question 3

The test is not significant ($p = 0.06$).

The test statistic is 1.64.

Question 4

The test is significant ($p < 0.0001$).

The test statistic is 49.

Question 5: Bacteria counts

The test is not significant ($p = 0.15$).

The test statistic is 907.5.

Question 6: Flint, Michigan

The groups are significantly different ($p = 0.007$).

The test statistic is -2.86.

No, there is only 8.7% (0.09) of households with bad lead in this sample.