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Statistics for laboratory scientists

Homework problems for lecture 15

1. Suppose I measure some treatment response on a set of 10 mice from strain A, and receive the following data:

84 106 99 101 100

99 127 105 101 108

Note that $n=10$, the sample mean is **103** and the sample SD is **10.67**.

Suppose I measure the same sort of treatment response on a set of 5 mice from strain B, and receive the following data:

56 62 67 81 69

Note that $m=5$, the sample mean is **67** and the sample SD is **9.30**.

Calculate a 95% confidence interval for the difference in the average treatment responses of strains A and B.

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