1. Suppose a candidate running for sheriff in a rural community claims that she will reduce the average speed of emergency response time to less than 30 minutes, which thought to be the average response time with the current sheriff. There are no past records, so the actual standard deviation of such response times cannot be determined. Thanks to this campaign, she is elected sheriff, and careful records are kept. The response times for the first month are: 26, 30, 28, 29, 25, 28, 32, 35, 24, 23. Using a p < .05 level of significance did she keep her promise?

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| Assumptions: |
| Step 1: |
| Step 2: |
| Step 3: |
| Step 4: |
| Step 5: |
| Step 6: |
| Confidence Interval: |
| Effect size: |

1. In a particular country, it is known that college seniors report falling in love an average of 2.20 times during their college years. A sample of five seniors, originally from that country but who have spent their entire college career in the United States, were asked how many times they had fallen in love during their college years. Their numbers were 2, 3, 5, 5, 2. Using the p < .01 significance level, do students like these who go to college in the US fall in love more often than those from their country who go to college in their own country?

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| Assumptions: |
| Step 1: |
| Step 2: |
| Step 3: |
| Step 4: |
| Step 5: |
| Step 6: |
| Confidence Interval: |
| Effect size: |