One-Mean Test

The mean wait time at a drive-thru of a fast-food restaurant is 90 seconds. A new system is implemented to reduce the wait time.

Here are the wait times (in seconds) for 10 randomly selected drive-thru customers:

| 109 | 67 | 58 | 76 | 65 | 80 | 96 | 86 | 71 | 72 |

Test the claim that the new system has reduced the waiting time, using a 0.05 level of significance.

(Data can be found as "AMATYC 2020" in the "Woodbury Math 21" StatCrunch group.)