TI-84 Statistics Practice

Five original list, summary-statistics and regression questions with answers.

Student practice

1. Enter 4, 6, 8, 8, 9 in L1. Record n, mean, median, Sx and sigma x.

2. For 3, 5, 7, 9, 11, compare the mean and median. What feature of the data explains the result?

3. Enter x-values 1, 2, 3, 4 in L1 and y-values 3, 5, 7, 9 in L2. Run LinReg(ax+b).

4. Add 50 to the data set 6, 7, 8, 9. Describe how the mean and median change.

5. A class has scores 70, 74, 78, 82, 86. Find the population standard deviation and explain what it measures.

Teacher answer key

- 1. n = 5; mean = 7; median = 8; sample Sx ≈ 2; population sigma x ≈ 1.789.
- 2. Mean = median = 7 because the data are symmetric around 7.
- 3. a = 2 and b = 1, so the regression equation is y = 2x + 1.
- 4. The mean rises sharply while the median changes much less; 50 is an outlier.
- 5. Population standard deviation ≈ 5.657; it describes typical spread around the mean.

Notation reminder

Sx is the sample standard deviation. sigma x is the population standard deviation. Students should choose the statistic that matches how the data were obtained.

Accessible web version: www.calcforclass.com/oer/ti84-statistics-practice/