

Confidence Intervals for Data

1. The following data was collected from 13 random students to see how much they were spending on lunch. Construct a 95% confidence interval from the data.

1.50, 2.25, 3, 4.15, 3.80, 2.75, 2.75, 2.75, 3.15, 2.15, 1.90, 2.25, 3.35,

2. The following data was collected from a random sample of 15 drivers who went to court to fight speeding tickets. The numbers reflect how much their fines were reduced. Construct a 90% confidence interval for the average amount the ticket was reduced.

-50, -100, 50, 0, -25, 25, -50, -100, -500, -200, 200, -150, -50, -75, -25

3. Mrs. Schreckengost took a random sample of 15 Wheaton Seniors and look at their SAT math scores. The data is below. Construct an 80% confidence interval for the average math SAT Score.

490, 600, 625, 700, 710, 580, 435, 590, 620, 700, 690, 680, 590, 600, 620