A sample of students from Dr. Bateh’s statistics class were polled regarding the number of hours they spent studying for the last midterm. All students anonymously submitted the number of hours on a 3 by 5 card. There were 24 individuals in the one section of the course polled. The data was used to make inferences regarding the other students taking the course. There data are below:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4.5 | 22 | 7 | 14.5 | 9 | 9 | 3.5 | 8 | 11 | 7.5 | 18 | 20 |
| 7.5 | 9 | 10.5 | 15 | 19 | 2.5 | 5 | 9 | 8.5 | 14 | 20 | 8 |

Compute a 95 percent confidence interval. What does this tell us?