

Unit 1 Lesson 9: Using Technology for Statistics

1 Estimation: Stack of Books (Warm up)

Student Task Statement



How tall is the stack of books?

1. Record an estimate that is:

too low	about right	too high

2. Explain your reasoning.

2 Spreadsheet Statistics

Student Task Statement

Here is a list of the number of pages for fiction books on a shelf.

15	243	426	175	347	186	236	394	170
412	242	479	185	254	186	278	277	278
486	207	378	251	458	360	440	181	349
482	382							

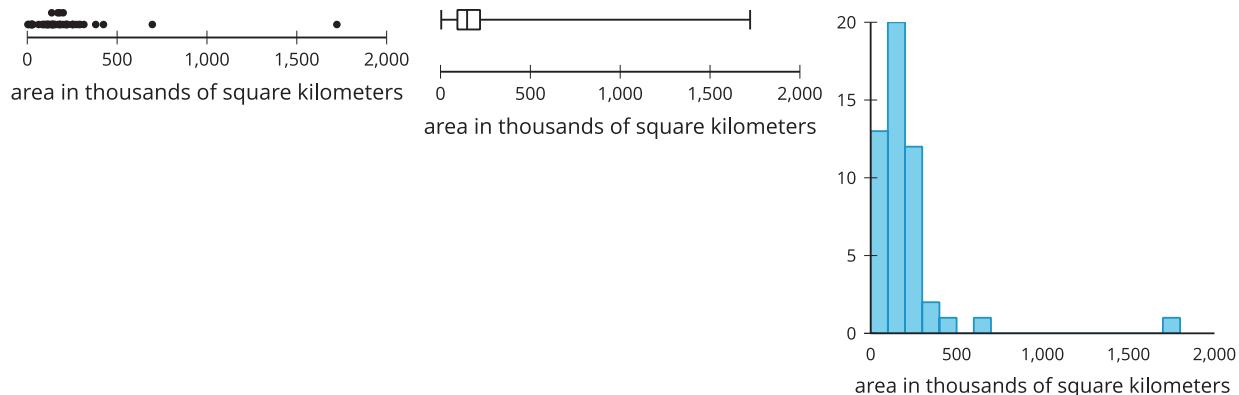
1. Describe a method to find the mean of these values. (Do not calculate the value yet.)
2. Input the data into a spreadsheet in the same column. In another column, write a spreadsheet formula that will compute the value of the mean for the values in the column. What is the mean number of pages in these books?
3. The first book on the list with 15 pages was a recording error and should have been 158 pages. You need to compute the new mean using 158 instead of 15. Would you rather compute the new mean by hand or use a computer? Explain your reasoning.
4. What is the new mean number of pages in these books with the updated value of 158 pages for the first book in the list?
5. Another book is found and added to the shelf. This new book has 519 pages. How would you update your spreadsheet formula to include this new value?

3 Which Data Display?

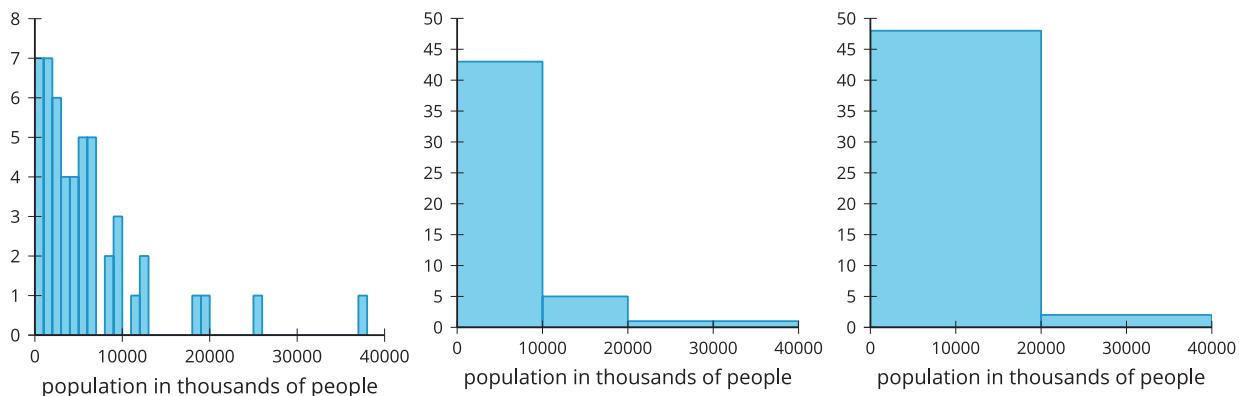
Student Task Statement

For each set of data, select the data display that is most informative, then explain your reasoning.

The total area of 50 U.S. states in thousands of square kilometers.



The population of the 50 U.S. states in thousands of people.



The population density of 50 U.S. states in people per square mile.

