

For help with question 1, refer to Example 1.

1. This set of data shows the numbers of customers who made purchases at a coffee shop each day in one month.

114, 142, 59, 122, 111, 128, 158, 79, 88, 107, 133,  
131, 113, 152, 149, 99, 84, 112, 104, 109, 122,  
131, 144, 155, 139, 142, 119, 80, 127, 140, 135

- Find the median for the set of data.
- Find the first and third quartiles.
- What is the interquartile range?

For help with questions 2 to 7, refer to Example 2.

2. Find the range for each set of data.
- the number of hours worked by restaurant staff in a given week:  
11, 4, 55, 42, 41, 36, 50, 6, 8, 44, 39
  - Alex's monthly earnings, in dollars:  
100, 115, 112, 125, 104, 101, 117, 121, 98, 100, 95, 102
  - the number of songs Matilda downloaded each month:  
12, 11, 9, 12, 13, 15, 14, 11, 11, 8, 6, 7
  - the masses of students in a club, in kilograms:  
65, 45, 71, 85, 37, 91, 88, 74, 76, 68, 65
3. A set of data has a range of 30. The least value in the set of data is 22. What is the greatest value in the set of data?
4. A set of data has a range of 14. The greatest value in the set is 116. What is the least value in the set of data?

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9. The mathematics test scores, out of 100, for 13 students are shown. Display the data in a box-and-whisker plot.
- 80, 75, 90, 95, 65, 65, 80, 57, 85, 70, 74, 100, 84