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## Stats / Box-and-whisker plots

Problem Explanation

### Box-and-whisker plots

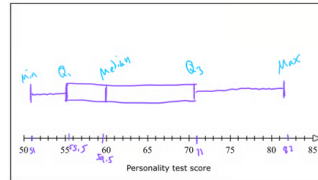
#### QUESTION

There are dozens of personality tests available on the World Wide Web (including one that tells the test taker which dead Russian composer he's most like). One test, scored on a scale of 0 to 200, is designed to give an indication of how "personable" the test taker is, with higher scores indicating more "personability."

Suppose that 16 classmates have taken this test and scored as follows:

70, 65, 54, 52, 58, 77, 80, 82, 60, 74, 51, 57, 59, 58, 58

Using the tool provided, construct a box-and-whisker plot for the data.



① Put in order  
② Find Median  
③ Find  $Q_1$   
④ Find  $Q_3$

51 52 54 55 | 56 57 58 59 | 60 63 70 71 | 71 77 80 82

$\frac{55+56}{2} = 55.5$   
 $\frac{59+60}{2} = 59.5$   
 $\frac{71+71}{2} = 71$

Five - Number Summary

| Min | $Q_1$ | Median | $Q_3$ | Max |
|-----|-------|--------|-------|-----|
| 51  | 55.5  | 59.5   | 71    | 82  |

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