NAME

Module 19 Analyzing Data and Statistics
Lesson 3 Analyzing and Describing Graphs

guided practice

Set 1

IQ Scores

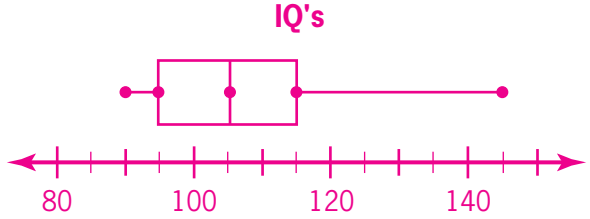
9	0 0 5
10	0 5 5
11	0 5
12	0
13	
14	5

12|0 = 120

1. Find the five-number summary of the IQ scores given in the stem-and-leaf plot.

   Minimum: 90, Q_1: 95, Median: 105, Q_3: 115, Maximum: 145

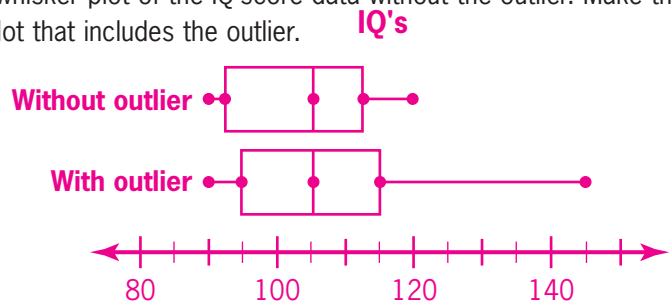
2. Make a box-and-whisker plot of the IQ-score data.



3. Find the five-number summary of the IQ scores when the outlier 145 is removed.

   Minimum: 90, Q_1: 92.5, Median: 105, Q_3: 112.5, Maximum: 120

4. Make a box-and-whisker plot of the IQ-score data without the outlier. Make this plot above the plot that includes the outlier.



5. Compare the box-and-whisker plot that includes the outlier with the box-and-whisker plot that does not include the outlier.

   Possible answers: Box shifted left slightly when outlier removed; right whisker was shorter when outlier removed; there were the same minimum and Q_2 values; interquartile ranges were almost the same, etc.

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