Chapter 5

• Review
The five-number summary of credit hours for 24 students in an introductory statistics class is:

<table>
<thead>
<tr>
<th>Min</th>
<th>Q1</th>
<th>Median</th>
<th>Q3</th>
<th>Max</th>
</tr>
</thead>
<tbody>
<tr>
<td>13.0</td>
<td>15.0</td>
<td>16.5</td>
<td>18.0</td>
<td>22.0</td>
</tr>
</tbody>
</table>

From this we know that

A. there are no outliers in the data.
B. there is at least one low outlier in the data.
C. there is at least one high outlier in the data.
D. None of the above.
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D. None of the above.
Boxplots are particularly effective for displaying/comparing (circle all that apply):

A. Categorical data
B. Groups
C. Means
D. Outliers
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D. Outliers
The side-by-side boxplots below show cumulative GPAs for sophomores, juniors and seniors taking intro stats course in Autumn 2003.

Which class had the lowest cumulative GPA?

A. Sophomore
B. Junior
C. Senior
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**B. Junior**

C. Senior
The side-by-side boxplots below show cumulative GPAs for sophomores, juniors and seniors taking intro stats course in Autumn 2003.

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C. Senior
An outlier is a point more than 1.0 IQR from either end of the box in a boxplot.

A. True
B. False
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B. False
When comparing two groups, use different scales, if necessary, for clarity and sizing.

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B. False
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A. True

B. False
A far outlier is a point more than _____ IQR from either end of the box in a boxplot.

A. 0.75
B. 1.5
C. 2.0
D. 3.0
A far outlier is a point more than _____ IQR from either end of the box in a boxplot.

A. 0.75
B. 1.5
C. 2.0
D. 3.0

Answer: D. 3.0