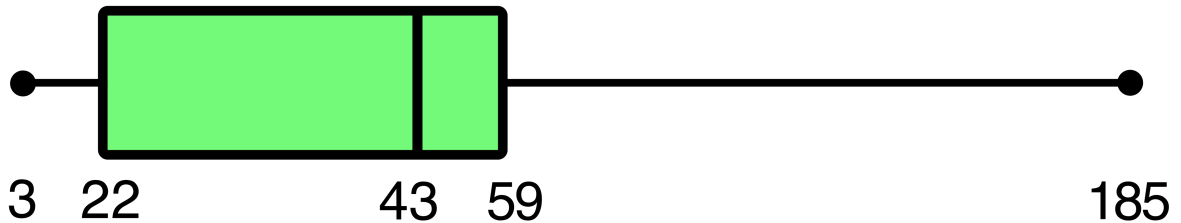Name: _____

Analyzing Box-and-Whisker Plots

Directions: Use the box-and-whisker plot graphs below to answer the questions that follow.

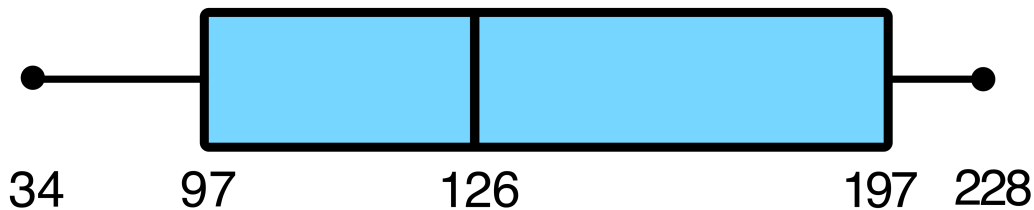**1.) Number of Songs Per Playlist**

```
3   22              43   59                          185
```

A.) What is the largest number of songs in a playlist? _____

B.) What is the smallest number of songs in a playlist? _____

C.) What is the median number of songs in a playlist? _____

D.) What percent of playlists have 22 or more songs? _____

E.) What is the range of the number of songs in the middle 50% of playlists? _____

F.) Is it more likely that a playlist will have more than 40 songs or fewer than 20 songs? Explain why.

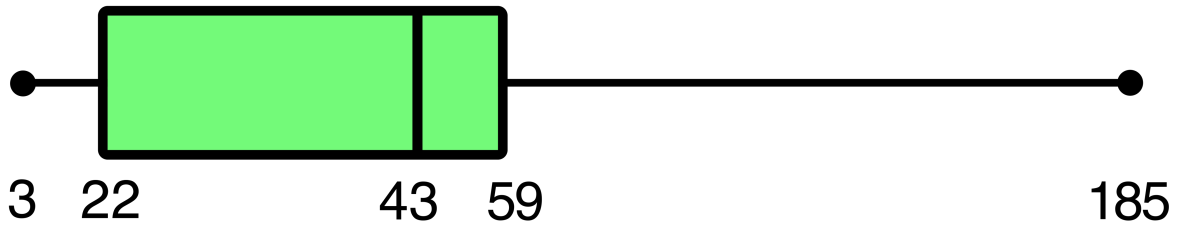**2.) Daily Number of Minutes Spent on Social Media by Teenagers**

```
34        97           126              197  228
```

A.) What was the largest number of minutes spent on social media? _____

B.) What was the smallest number of minutes spent on social media? _____

C.) What was the median number of minutes spent on social media? _____

D.) What percent of teenagers spent at least 126 minutes on social media? _____

E.) What percent of teenagers spent less than 30 minutes on social media? _____

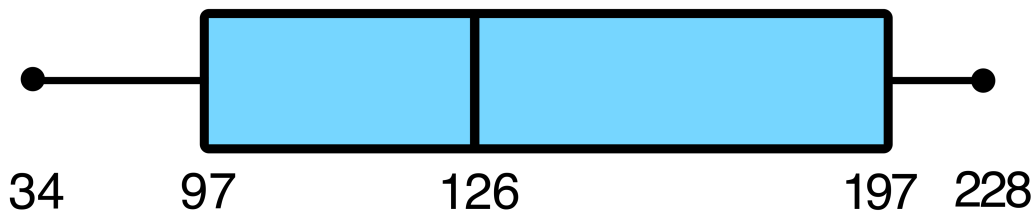F.) Do you think that the graph is an accurate representation of daily social media use? Explain your answer.

1.) Number of Songs Per Playlist

3   22   43   59   185

G.) What is the largest number of songs in a playlist? **185**

H.) What is the smallest number of songs in a playlist? **3**

I.) What is the median number of songs in a playlist? **43**

J.) What percent of playlists have 22 or more songs? **75%**

K.) What is the range of the number of songs in the middle 50% of playlists? **37**

L.) Is it more likely that a playlist will have more than 40 songs or fewer than 20 songs? Explain why. **It is more likely that a playlist will have 40 songs because 50% of playlists have 43 songs or more, while onlt 25% have 22 songs or fewer.**

2.) Daily Number of Minutes Spent on Social Media by Teenagers

34   97   126   197   228

G.) What was the largest number of minutes spent on social media? **228**

H.) What was the smallest number of minutes spent on social media? **34**

I.) What was the median number of minutes spent on social media? **126**

J.) What percent of teenagers spent at least 126 minutes on social media? **50%**

K.) What percent of teenagers spent less than 30 minutes on social media? **0%**

L.) Do you think that the graph is an accurate representation of daily social media use? Explain your answer. **Answers will vary.**