

# Box Plot Exploration Questions

## Questions for the data on Gas Mileage

These data show the average gas mileage for a selected set of cars manufactured for sale in the year 2000. The categories are car size: compact, midsize and SUV. *Source: US DOT Bureau of Transportation Statistics*

1. Approximately what was the median gas mileage for these cars?
2. What is the interquartile range for the overall gas mileage?
3. Which type of car uses the most fuel? the least?
4. How do the middle 50% of the data for the types of car compare?

## Questions for the data on Body Fat Percentages

These data show the body fat percentages for 66 men and women.

1. Approximately what was the median percentage body fat for the everyone in the data set?
2. What is the interquartile range for the overall percentage body fat?
3. Do men or women seem to have higher overall body fat? Do some research and see if you can find any biological reasons why this may be the case.
4. How do the middle 50% of the data for body fat compare?