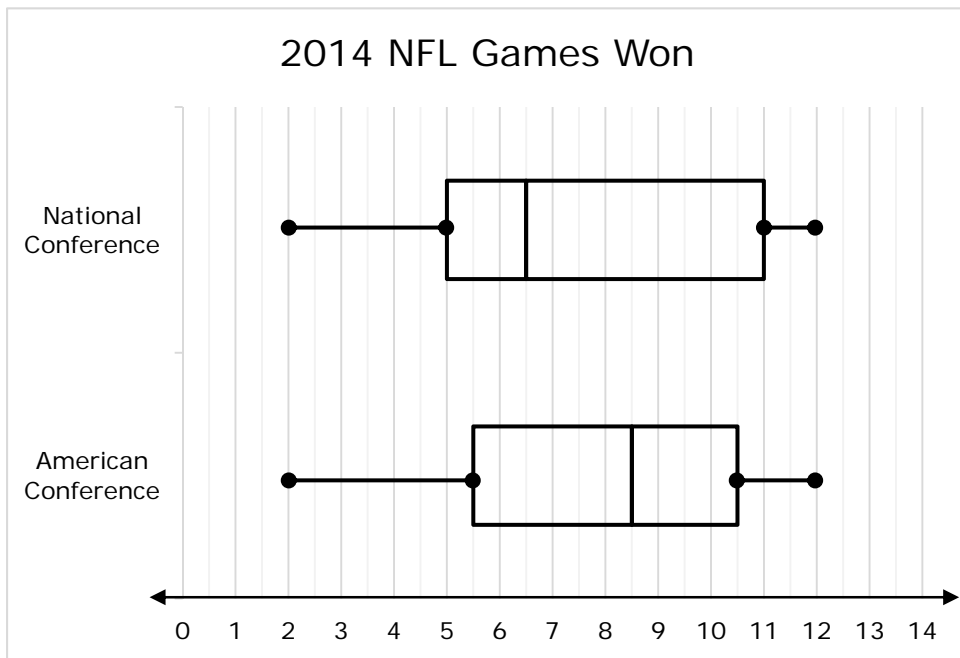Name_____Date_____

Analyzing Data
Explore

Directions: Use the comparative box plots and comparative dot plots below to complete the table identifying the shape, center, and spread for each data set. Then, use the tables to compare the two data sets contained in each comparative box or dot plot.

The comparative box plots below show the number of games that each of 16 teams in the National Football Conference and the 16 teams in the American Football Conference each won in the 2014 regular National Football League season.

2014 NFL Games Won

National Conference

American Conference

0   1   2   3   4   5   6   7   8   9   10   11   12   13   14

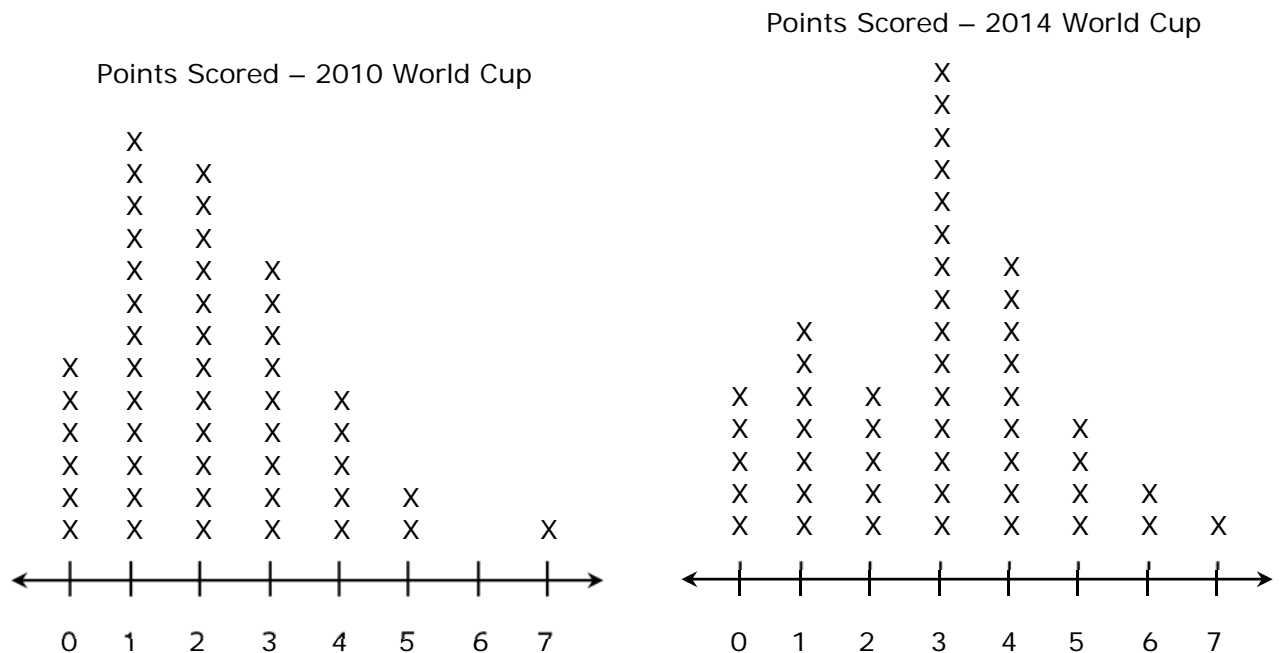| Attribute	National Conference	American Conference
Shape		
Center		
Spread		

1. How does the shape of the graphs of the two data sets compare? What does this tell you about the two data sets?

2. How does the center of the two data sets compare? What does this tell you about the two data sets?

3. How does the spread of the two data sets compare? What does this tell you about the two data sets?

The comparative dot plots below show the total number of points scored in each of the first round games (each team's individual score combined) during the 2010 and 2014 FIFA World Cup soccer tournaments.

Points Scored – 2010 World Cup

Points Scored – 2014 World Cup

Attribute	2010 World Cup	2014 World Cup
Shape		
Center		
Spread		

4. How does the shape of the graphs of the two data sets compare? What does this tell you about the two data sets?

5. How does the center of the two data sets compare? What does this tell you about the two data sets?

6. How does the spread of the two data sets compare? What does this tell you about the two data sets?

Debriefing Questions:

1. In a comparative box plot, how can you tell the differences in shapes, centers, and spreads of the data sets represented in the box plots?

2. In a comparative dot plot, how can you tell the differences in shapes, centers, and spreads of the data sets represented in the box plots?