

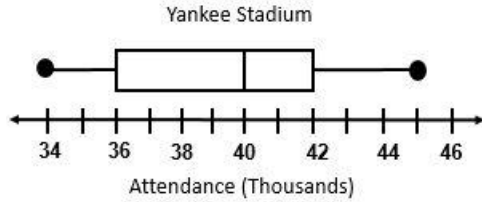
# Box Plots Create & Interpret



Answer each question based on the Box Plot.



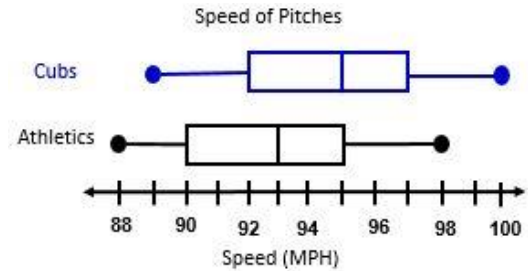
The box plot shows the attendance at Yankee Stadium during the month of June.



1. How many people attended the game with the least amount of fans.
2. How many people attended the game with the most fans.
3. What was the median amount of fans that attended games at Yankee Stadium during June?

4. What percent of the games had 40,000 or more fans attending?
5. What percent of the games had between 36,000 and 42,000 fans attending?
6. What percent of the games had less than 36,000 fans attending?

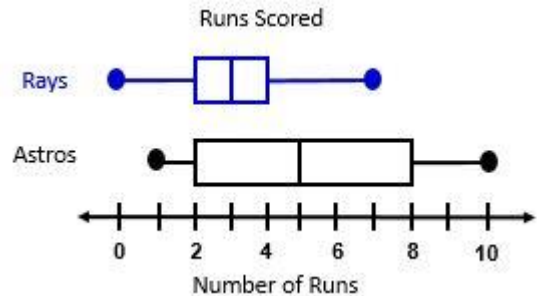
The box plot shows the speed of pitches thrown during the opening day games by the Oakland Athletics and the Chicago Cubs starting pitchers.



7. Find the median pitching speed for both teams.
8. What percent of the Cubs pitching was 92 mph or greater?
9. Find the interquartile range for both teams.

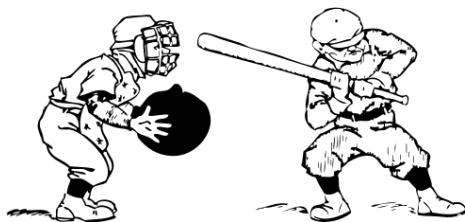
10. What percent of the Athletics pitching was 95 mph or less?
11. What is the range of speeds pitched by both teams.
12. Which team pitched faster, support your answer.

The box plot shows the number of runs scored in each game by the Tampa Bay Rays and the Houston Astros during the first 4 weeks of the baseball season.



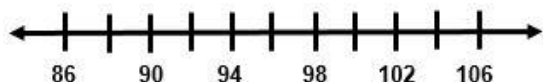
13. What percent of games did the Astros score 1 or more runs?
14. What is the range of runs scored by both teams.
15. Compare the median runs scored for both teams.

16. Find the interquartile range for both teams.
17. What percent of games did the Rays score between 2 and 4 runs?
18. Who scored the most runs in a single game?



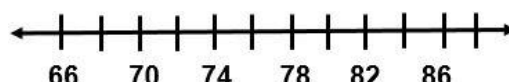
19. Make a box plot based on the number of games lost over 7 years.

**Royals: 104, 106, 100, 93, 87, 97, 95**



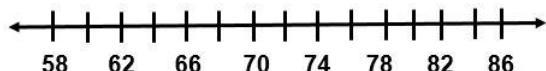
20. Make a box plot based on the number of games lost over 8 years.

**Tigers: 75, 87, 72, 69, 74, 67, 81, 77**



21. Make a box plot based on the number of games lost over 9 years.

**Indians: 72, 86, 74, 58, 65, 62, 61, 61, 62**

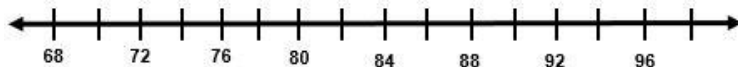


22. Make a box plot based on the number of games lost over 11 years. Draw your own number line.

**Twins: 79, 92, 96, 96, 99, 68, 76, 75, 83, 66, 79**

23. The data shows the number of wins each Major League Baseball team had over a 10 year period. Create a double box plot to represent both sets of data.

**Rays**  
**Rangers**

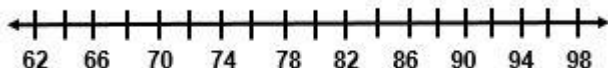


**Rays: 97, 84, 96, 91, 90, 92, 77, 80, 68, 80**

**Rangers: 79, 87, 90, 96, 93, 91, 67, 88, 95, 78**

24. The data shows the number of wins each Major League Baseball team had over a 10 year period. Create a double box plot to represent both sets of data.

**Marlins**  
**Red Sox**



**Marlins: 84, 87, 80, 72, 69, 62, 77, 71, 79, 77**

**Red Sox: 95, 95, 89, 90, 69, 97, 71, 78, 93, 93**

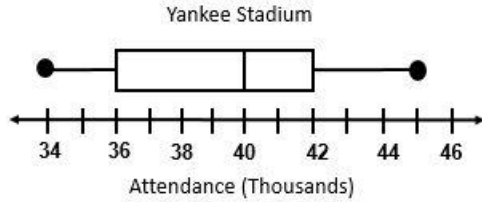
# Box Plots Create & Interpret



Answer each question based on the Box Plot.



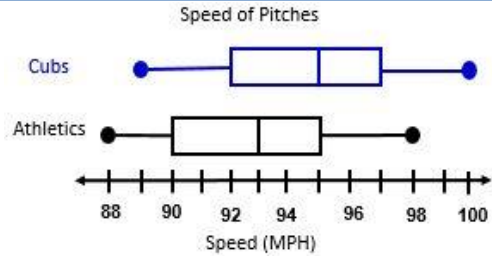
The box plot shows the attendance at Yankee Stadium during the month of June.



1. How many people attended the game with the least amount of fans. **34,000**
2. How many people attended the game with the most fans. **45,000**
3. What was the median amount of fans that attended games at Yankee Stadium during June?  
**40,000**

4. What percent of the games had 40,000 or more fans attending? **50%**
5. What percent of the games had between 36,000 and 42,000 fans attending? **50%**
6. What percent of the games had less than 36,000 fans attending? **25%**

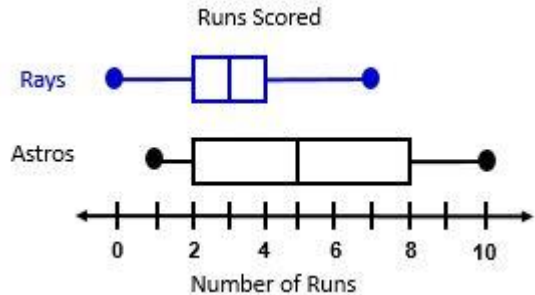
The box plot shows the speed of pitches thrown during the opening day games by the Oakland Athletics and the Chicago Cubs starting pitchers.



7. Find the median pitching speed for both teams.  
**Cubs 95 , A's 93**
8. What percent of the Cubs pitching was 92 mph or greater? **75%**
9. Find the interquartile range for both teams.  
**Cubs 5 , A's 5**

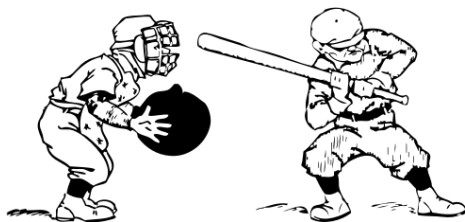
10. What percent of the Athletics pitching was 95 mph or less? **75%**
11. What is the range of speeds pitched by both teams. **Cubs  $100 - 89 = 11$ , A's  $98 - 88 = 10$**
12. Which team pitched faster, support your answer.

The box plot shows the number of runs scored in each game by the Tampa Bay Rays and the Houston Astros during the first 4 weeks of the baseball season.



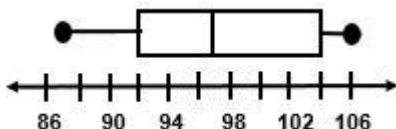
13. What percent of games did the Astros score 1 or more runs? **100%**
14. What is the range of runs scored by both teams. **Ray's  $7 - 0 = 7$ , Astros  $10 - 1 = 9$**
15. Compare the median runs scored for both teams. **Rays  $3 <$  Astros  $5$**

16. Find the interquartile range for both teams.  
**Rays 2 , Astros 6**
17. What percent of games did the Rays score between 2 and 4 runs? **50%**
18. Who scored the most runs in a single game?  
**Astros 10**



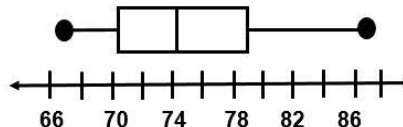
19. Make a box plot based on the number of games lost over 7 years.

**Royals:** 104, 106, 100, 93, 87, 97, 95  
 87, 93, 95, 97, 100, 104, 106  
**Median: 97 LQ: 93 UQ: 104**



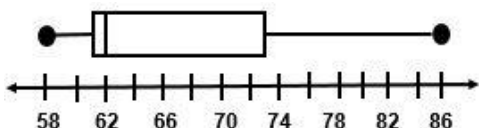
20. Make a box plot based on the number of games lost over 8 years.

**Tigers:** 75, 87, 72, 69, 74, 67, 81, 77  
 67, 69, 72, 74, 75, 77, 81, 87  
**Median: 74.5 LQ: 70.5 UQ: 79**



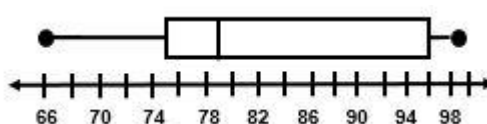
21. Make a box plot based on the number of games lost over 9 years.

**Indians:** 72, 86, 74, 58, 65, 62, 61, 61, 62  
 58, 61, 61, 62, 62, 65, 72, 74, 86  
**Median: 62 LQ: 61 UQ: 73**



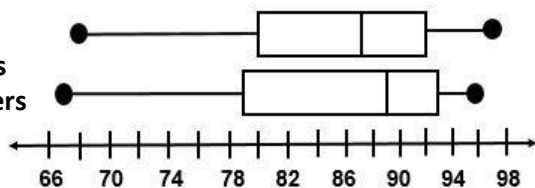
22. Make a box plot based on the number of games lost over 11 years. Draw your own number line.

**Twins:** 79, 92, 96, 96, 99, 68, 76, 75, 83, 66, 79  
 66, 68, 75, 76, 79, 79, 83, 92, 96, 96, 99  
**Median: 79 LQ: 75 UQ: 96**



23. The data shows the number of wins each Major League Baseball team had over a 10 year period. Create a double box pot to represent both sets of data.

**Rays**  
**Rangers**

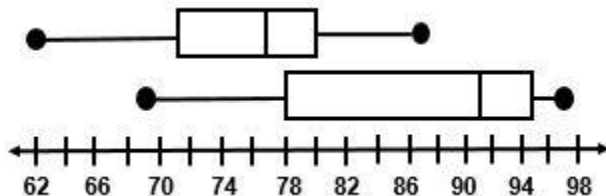


**Rays:** 97, 84, 96, 91, 90, 92, 77, 80, 68, 80  
 68, 77, 80, 80, 84, 90, 91, 92, 96, 97  
**Median: 87 LQ: 80 UQ: 92**

**Rangers:** 79, 87, 90, 96, 93, 91, 67, 88, 95, 78  
 67, 78, 79, 87, 88, 90, 91, 93, 95, 96  
**Median: 89, LQ: 79 UQ: 93**

24. The data shows the number of wins each Major League Baseball team had over a 10 year period. Create a double box pot to represent both sets of data.

**Marlins**  
**Red Sox**

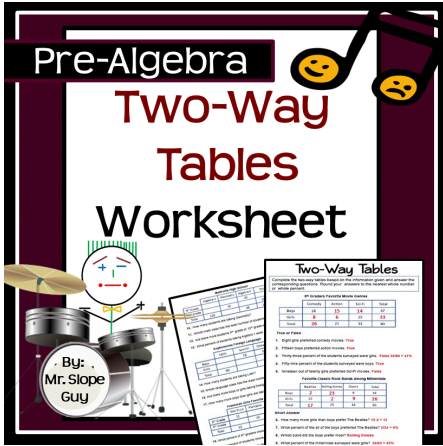


**Marlins:** 84, 87, 80, 72, 69, 62, 77, 71, 79, 77  
 62, 69, 71, 72, 77, 77, 79, 80, 84, 87  
**Median: 77 LQ: 71 UQ: 80**

**Red Sox:** 95, 95, 89, 90, 69, 97, 71, 78, 93, 93  
 69, 71, 78, 89, 90, 93, 93, 95, 95, 97  
**Median: 91.5 LQ: 78 UQ: 95**

# Recommendations

Pre-Algebra  
**Two-Way  
Tables  
Worksheet**

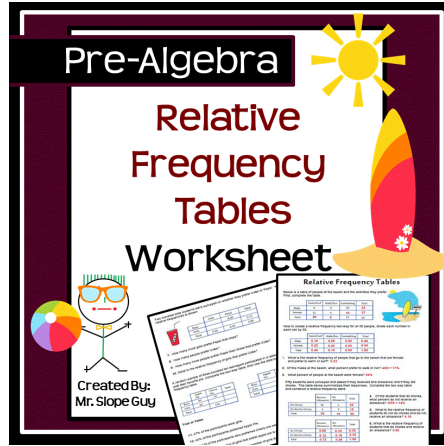


By: Mr. Slope Guy

This worksheet includes a table with the following data:

Gender	Like	Dislike
Male	12	8
Female	10	10

Pre-Algebra  
**Relative  
Frequency  
Tables  
Worksheet**

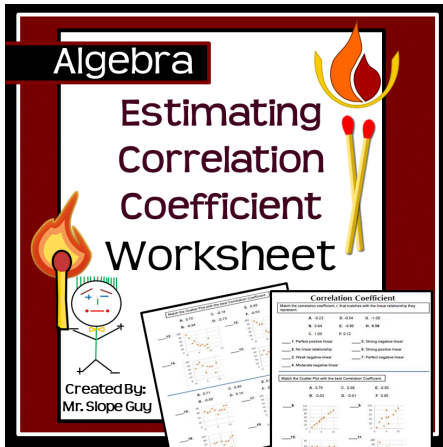


Created By: Mr. Slope Guy

This worksheet includes a table with the following data:

Category	Frequency	Relative Frequency
A	12	0.20
B	18	0.30
C	10	0.17
D	15	0.25

Algebra  
**Estimating  
Correlation  
Coefficient  
Worksheet**

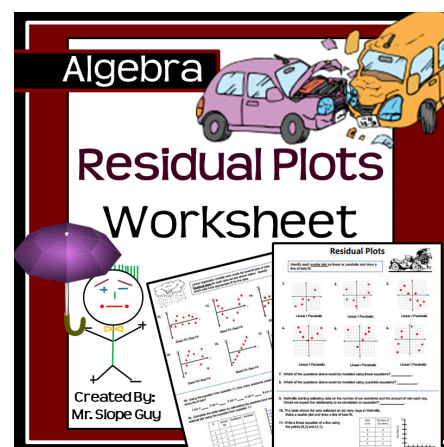


Created By: Mr. Slope Guy

This worksheet includes a table with the following data:

Year	Population	Unemployment Rate
2000	281.9	4.1
2001	282.9	4.2
2002	283.9	4.3
2003	284.9	4.4
2004	285.9	4.5
2005	286.9	4.6
2006	287.9	4.7
2007	288.9	4.8
2008	289.9	4.9
2009	290.9	5.0
2010	291.9	5.1
2011	292.9	5.2
2012	293.9	5.3
2013	294.9	5.4
2014	295.9	5.5
2015	296.9	5.6
2016	297.9	5.7
2017	298.9	5.8
2018	299.9	5.9
2019	300.9	6.0

Algebra  
**Residual  
Plots  
Worksheet**

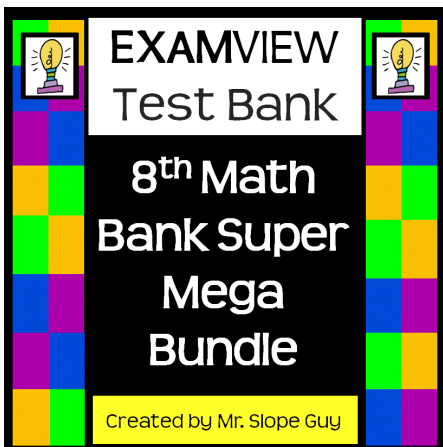


Created By: Mr. Slope Guy

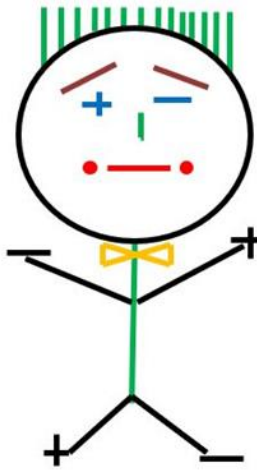
This worksheet includes a table with the following data:

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2004	285.9	4.5
2005	286.9	4.6
2006	287.9	4.7
2007	288.9	4.8
2008	289.9	4.9
2009	290.9	5.0
2010	291.9	5.1
2011	292.9	5.2
2012	293.9	5.3
2013	294.9	5.4
2014	295.9	5.5
2015	296.9	5.6
2016	297.9	5.7
2017	298.9	5.8
2018	299.9	5.9
2019	300.9	6.0

EXAMVIEW  
Test Bank  
8<sup>th</sup> Math  
Bank Super  
Mega  
Bundle



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Angles

Data & Statistics

Equations

Exponents

Graphing

Integers

Pythagorean Theorem

Real Numbers

Slope

Systems

Volume

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*Mr. Slope Guy*

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