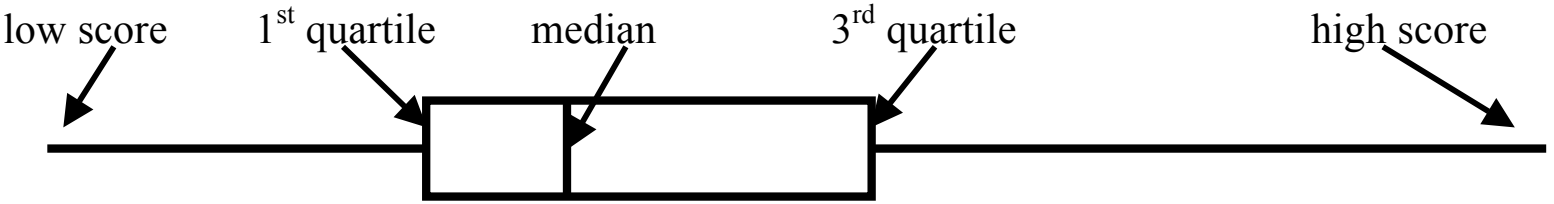
Number of Points Scored by a Baseball Team

Cut the strip for each team so that you have three strips representing three teams. Also cut off the margins on the right and left so that only the scores are left. To find the median fold the strip in half. To find the first and third quartile fold the paper in half again. On the number line place a dot at the low score, the first quartile, the median, the third quartile and high score. Create the shape below by using the dots that are drawn. Create a box and whisker for all three teams.



Team A

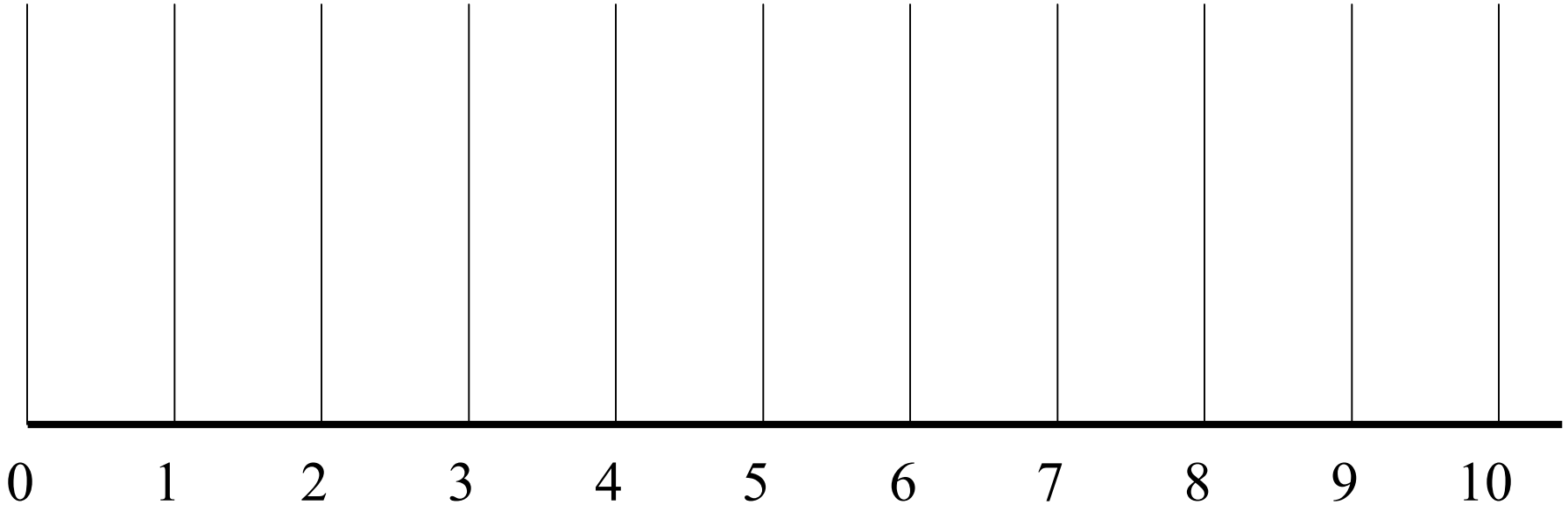
0	0	1	2	2	3	3	4	4	4	5	6	8	10	10

Team B

0	1	1	1	2	2	3	4	4	4	5	6	7	8

Team C

2	2	3	4	4	4	6	6	7	8	8	10



Lenny VerMaas
lvermaas@esu6.org

Box and Whisker Plots Discussion Questions

What are the 5 key points in a box and whisker plot?
What part of the data are enclosed by the "box" in the box and whisker plot?
What part of the data are represented by the "whiskers"?
Which data are connected to the box by the "whiskers"?
How do you know if a value is an "outlier"?
What kind of data would be best organized and reported with a box and whisker plot?
Is it possible to have a box and whisker plot with only one whisker?
What are the drawbacks or disadvantages of box and whisker plots?

Ways to generate data that can be used in a box and whisker. Any set of data can be used. Because box and whisker graphs high-light the difference between groups it is best to plot at least two groups and show the differences between the groups.

- Use boys and girls heights.
- Use heights from two different grades.
- Compare scores on test from two different classes or from two different times.
- Have students reach in a box of unifix cubes or other material and see how many they can draw out with one hand. Count the objects and compare two groups.

Kinesthetic Graphing

•Begin with a topic. Height, number of people in family or have students reach in a box of unifix cubes or other material and see how many they can draw out with one hand. Count the objects and compare two groups.
Arrange yourselves in a line from lowest to highest.
Create a frequency chart
Create a histogram
Create a box and whisker plot.

Creating Box and Whisker

Math Vantage, Data: How Do You Show It?, Lesson 3-3 Activity B

The video from Data: How Do You Show It? Shows how to construct a box and whisker graph.

Team A

0	0	1	2	2	3	3	4	4	4	5	6	8	10	10

Team B

0	1	1	1	2	2	3	4	4	4	5	6	7	8

Team C

2	2	3	4	4	4	6	6	7	8	8	10

Team A

0	0	1	2	2	3	3	4	4	4	5	6	8	10	10

Team B

0	1	1	1	2	2	3	4	4	4	5	6	7	8

Team C

2	2	3	4	4	4	6	6	7	8	8	10

Team A

0	0	1	2	2	3	3	4	4	4	5	6	8	10	10

Team B

0	1	1	1	2	2	3	4	4	4	5	6	7	8

Team C

2	2	3	4	4	4	6	6	7	8	8	10

Team A

0	0	1	2	2	3	3	4	4	4	5	6	8	10	10

Team B

0	1	1	1	2	2	3	4	4	4	5	6	7	8

Team C

2	2	3	4	4	4	6	6	7	8	8	10