

# Lesson: Math Grades 4-6

## Topic: Mean, Media, Mode and Range



### Who's On First?

**Overview:** Students will use a table to interpret data and draw conclusions. Students will also use this data to find mean, median, mode and range.

**Standards:**

1. Interpret data for a specific need.
2. Interpret data by looking for patterns and relationships, draw conclusions, and answer related questions.
3. Describe data using mode, median and range.

**Getting Started:**

*Materials:*

- Pencil
- "Kid Baldwin Pitching Statistics" hand out

*Technology:*

Students can research real baseball player statistics on the Internet, record them, answer related questions created by the teacher, and calculate the mean, median, mode and range. (If there are students that are not interested in baseball, an option for them could be to look up statistics regarding an athlete from a different sport.)

*Vocabulary*

- Mean
- Median
- Mode
- Range
- Data
- Relationship
- Conclusion

*Hand Outs:*

- "Kid Baldwin Pitching Statistics" hand out

**Lesson:**

*Set Up:*

- Teacher should run off enough copies of the "Kid Baldwin Pitching Statistics" hand out for everyone in the class (or for each small group if students will be working in small groups).

*Activity:*

- Begin lesson with a discussion about baseball players and how important it is to keep good records or statistics for them.

- Explain that you have some statistics for “Kid Baldwin,” the pitcher in the production of “Casey at the Bat”, who struck out the “Mighty Casey.”
- Pass out the “Kid Baldwin Pitching Statistics” hand out. Depending on the age of your students, you may want to begin working as a class and progress towards students working in small groups or independently.

**Evaluation and Follow Up:**

- Use “Kid Baldwin Pitching Statistics” hand out for an assessment.
- Create different questions (and or chart) to assess learning.



## “Kid Baldwin Pitching Statistics” Hand Out

The table below shows the results of the batters that Kid Baldwin pitched to during the last ten games. Study the table, analyze the data and answer the questions below.

Game	Strike outs	Walks	Singles	Doubles	Triples	Home Runs
1	6	8	18	4	2	1
2	9	7	17	7	1	2
3	2	4	22	8	5	1
4	6	3	19	5	2	1
5	11	13	18	7	3	3
6	14	13	19	4	2	1
7	2	4	23	2	4	2
8	6	5	18	4	1	1
9	9	11	22	5	3	1
10	6	4	18	7	2	2

1. Did batters hit more singles, doubles, triples or home runs when Kid Baldwin was pitching?
2. What is the mean of batters that hit singles?
3. What is the mean of batters that hit home runs?
4. What is the difference between the mean of batters that hit singles and the mean of the batters that hit home runs?
5. What game was the least number of singles hit by the batters?
6. Use the back of this paper to create a table or tables that show the mean, median, mode and range of each category in the chart above.