

Median, Mode, and Range

Presented by Emely Delgado, Daisy Teodoro, Elizabeth
Mericle, and Katherine

Fall 2023 EMPACTS Project
Math Structures II - Dr. Joseph Newhall
Northwest Arkansas Community College
Bentonville, AR 72712

OUR TEAM

Emely



Elizabeth



Daisy



Katherine



Mentor:

Mrs. Melissa Norton
4th Grade teacher at
Walker Elementary



Project Introduction

We are college students currently pursuing a career in education. We are enrolled in Mathematical Structures II, a class that explores mathematical standards. We mentored at Walker Elementary with Mrs. Norton, a 4th grade teacher. We explored a topic to teach and chose to do a lesson on Median, Mode, and Range.

This was part of our EMPACTS Project where we researched and presented a lesson on a math standard, collaborating with Mrs. Norton in the process. This project gave us the opportunity to have in-class experience and work on our skills to become better teachers in the future.

Math Standard and Objectives

Math Standard

NPV.7 - Decompose fractions, including fractions greater than one and mixed numbers, into unit fractions, using concrete models, drawings, and/or the number line. (using denominators of 2, 3, 4, 5, 6, 8, 10, 12, and 100).

Objectives

1. Students will be able to recall median, mode, and range through interactive activities.
2. Students will be able to identify the median, mode, and range of a number set.

Lesson Plan

Objectives:

1. Students will be able to recall median, mode, and range through interactive activities.
2. Students will be able to identify the median, mode, and range of a number set.

Materials needed:

Pencils, Worksheet, Smartboard/Slideshow (Teacher's use)

Lesson Instructions

1. Begin the lesson with brief introductions of the presenters.
2. We will introduce median, mode and range by first giving the definition of each topic, as well as a brief example that demonstrates what each topic does/measures.
3. After students are familiar with the concepts, we will do an interactive activity where students will work through an example problem set. They will be in groups for this activity. We will monitor students, interacting and helping students throughout their group time.
4. After students finish the example problem, the students will create their own number sets to work through. They will also do this activity in groups.

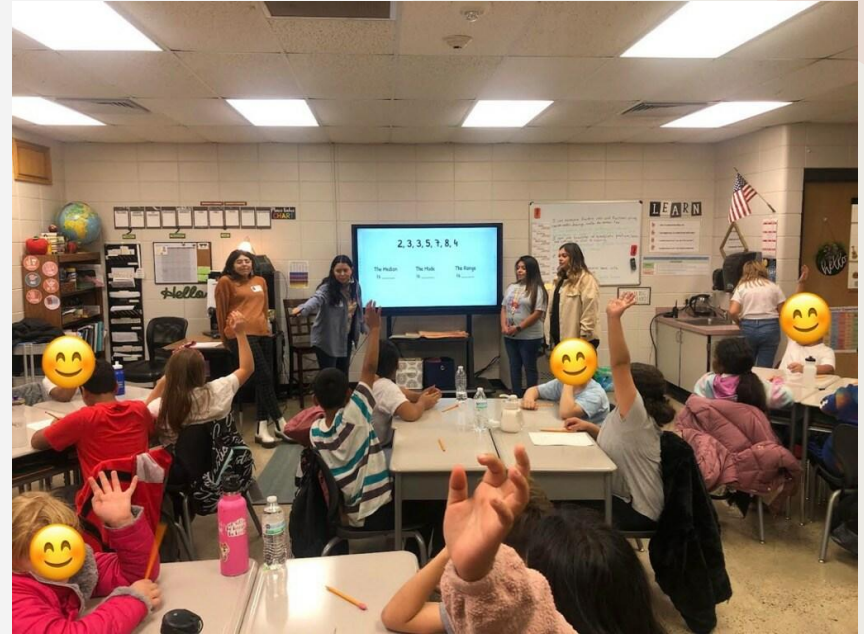
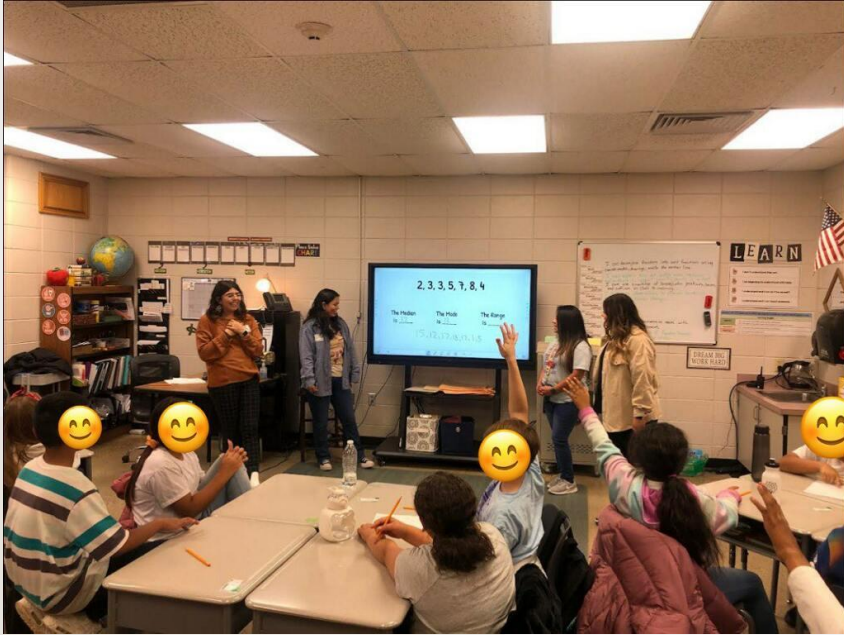
Assessment

Students will be assessed by a review worksheet with example problems (independent)

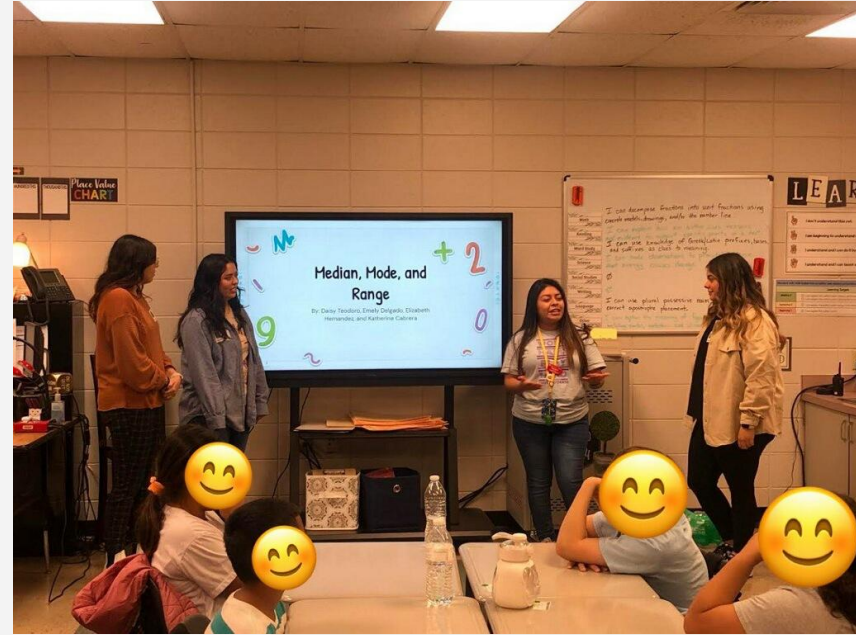
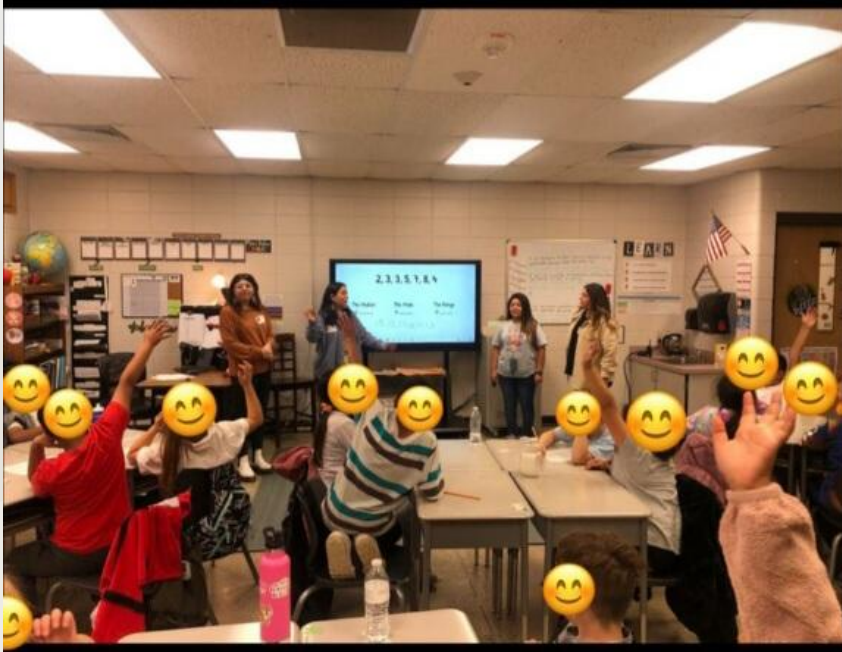
Conclusion

Students were able to identify the Median, Mode, and Range of a number set, using various methods.

Project Pictures



Project Pictures



Worksheet with key

Name: _____

Mean, Median, Mode, and Range

Find the mean, median, mode, and range for each set of numbers.



median - _____ mode - _____
range - _____ mean - _____



median - _____ mode - _____
range - _____ mean - _____



median - _____ mode - _____
range - _____ mean - _____

ANSWER KEY

Mean, Median, Mode, and Range

Find the mean, median, mode, and range for each set of numbers.



median - 2 mode - 1
range - 5 mean - 3



median - 7 mode - 7
range - 14 mean - 7



median - 12 mode - 12
range - 15 mean - 10

What we learned

Through this experience, we learned that we enjoyed teaching this age group. We were also able to see a glimpse into how a 4th grade classroom is like and how it functions. It was also interesting to see how different students approached different problems and how they worked in groups, as well as independently. Overall, it was a great opportunity to collaborate with teachers and gain in-classroom experience, and grow our skills as teachers/collaborators.

Products of what we learned

EMPACTS Skills:

- Team Work
- Organization
- Using classroom technology
- Communication

Teaching Skills:

- Time management
- Engagement
- Public speaking
- Classroom management

EMPACTS Material:

- Lesson Plan
- EMPACTS final presentation
- Worksheet
- Lesson plan presentation
- Webpage

College Curriculum Goals

- Demonstrate understanding of mathematical systems
- Prepare and present core mathematics lessons using some form of technology that can be incorporated into the EMPACTS program and/or submit an independent research project that incorporates technology.

Acknowledgements

Mrs. Melissa Norton - 4th grade teacher - Walker Elementary - K-6 Mentor

Dr. Joseph Newhall - Math Structures II Instructor

Dr. Diana Phillips - EMPACTS Project Facilitator at NWACC

Sources

Mean, Median, Mode, and Range Worksheet

→ https://www.superteacherworksheets.com/mean-median-mode-range/median-mode-range-tiles_TWTNN.pdf

THANKS!

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