MODE

Subject

Mathematics

Prepared By

[Instructor Name]

Grade Level

5

Overview

This lesson plan covers teaching content for;

1. Mode

Objectives

Students should be able to:

1. Define mode.
2. Create data set and find the mode.

Activity Starter/Instruction

1. Mode: Most - The mode is the most frequently occurring value of the data set.
2. Each student will contribute to the class shoe size data, collect data for the entire class, and analyze the data by determining the mode.
3. Model for students the method for finding the mode of the sample data by observing which shoe size occurs most frequently in the sample set.
4. Explain that data sets might not have a mode or might have more than one mode
5. Ask volunteers to provide examples of data sets that have no or multiple modes.
6. Students should recognize whether there is a mode for the sample of five shoe sizes and identify the mode if there is one.

Teacher Guide

Day 1/ Lesson 1: 20mins

1. Interactive Math Journals - Use cue cards and a brass fastener.
2. Students write definitions for each of the terms on the cards, then fasten them all together and stick them to the right side of the page.
3. On the left side of the page, they use a set of data provided by teacher and actually work through solving for mode and can also solve for mean.
4. Getting this done early in the unit gives the students something to reference for the rest of the year when they encounter these concepts.

Materials Required

- Cookies
- White board
- Marker
- Cue cards
- Brass fastener
- M&Ms
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Additional Resources

- https://beneylu.com/pssst/en/mean-median-mode/
- https://www.commonsense.org/education/lesson-plans/mean-median-mode
- https://www.education.com/lesson-plan/mighty-mean-median-and-mode/
- https://mste.illinois.edu/povich/plan1.html
- http://www2.southeastern.edu/Grants/LASIP/lessons
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Additional Notes

Guided Practice

Day 2/ Lesson 2: 15Mins

1. Students get paired up (each pair needs a package of cookies
2. Teacher can send a note home asking parents to send in cookies.
3. Each student then takes a turn stacking. Rules are - using one hand only, and you cannot move a cookie once it has been placed on the stack.
4. Keep stacking until your tower falls. The partner not stacking counts the cookies in the stack.
5. Draw a big chart on the whiteboard to record the # of cookies.
6. Each person gets 2 attempts, so you will have a large set of data when complete.
7. Then, together you can find the mode with the data.

Guided Practice

Day 4/ Lesson 4: 20mins

1. Teacher will write the numbers 12, 14, 5, 6, 10, 11, 5. Teacher will guide students through steps to find the mode (5).
2. Teacher will give two more sets of numbers. Students will find independently and write responses on dry erase board for every pupil response.
3. Teacher will pass out cups of M&M's and worksheet. Teacher will instruct students to count each color of candy and write in the number of each.
4. Teacher will then ask the students to find mode of the candy.
5. Students will word independently on worksheet.
6. Teacher will collect and formally assess.

Summary

1. Ask students randomly to provide solutions and review answer with the whole class.

Assessment Activity

1. Students will be informally assessed during activity via teacher observation.
2. Students will be formally assessed via the worksheet after activity completion.

Assessment Activity

Assess if students can;

1. Define mode
2. Calculate for mode correctly.