

COUNTING OF NUMBERS IN MILLIONS

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Subject

Mathematics

Prepared By

[Instructor Name]

Grade Level

4

Overview

This lesson plan covers teaching content for;

1. Counting of numbers in thousands, hundred thousand and millions.
2. Counting up to one million in ones, tens, hundreds and thousands.
3. Quantitative reasoning.

Objectives

Students should be able to;

1. Count numbers in thousand and millions.
2. Write a seven-digit number in standard form, word form, and expanded form.
3. Solve word problems involving counting of numbers up to millions.
4. Play games and make art that reinforces their learning.

Activity Starter/Instruction

1. Display a 7 to 9-digit number for students to read aloud as a group or one student at a time
2. Use a number with an interesting meaning (Distance from a planet to the Sun, etc.)
3. Ask students if they can guess the significance of the number
4. Try again with a new set of numbers (still with interesting meanings).
5. Ask them to read out the number.
6. Ask them if they can tell the significance of the number.
7. Tell the students that today, we will be learning how to count large numbers and read them.

Teacher Guided Practice

Day 2/ Lesson 2: 20 mins

1. Assign students to groups of 4-6.
2. Distribute blank sheets of paper/cardboard and markers.

Teacher Guide

Day 1/ Lesson 1: 20 Mins

1. Write a number in the cardboard paper, like 6,129,534.
2. Explain that each place is ten times the place to its right. Draw an arrow pointing to the digit in the tens place and write 3 x 10. Draw an arrow to the digit in the hundreds place and write 5 x 100. Continue for each place value.
3. Explain that this number is written in standard form which means it is written with counting numbers, the way we usually see numbers written.
4. Write the number in word form (the way we read or say numbers aloud; e.g., six million, one hundred twenty nine thousand, five hundred thirty four).
5. Write the number in expanded form (a way to break a number apart to show the value of each place value; e.g., 6,000,000 + 100,000 + 20,000 + 9,000 + 500 + 30 + 4).

Materials Required

- Cardboard paper
- Sheets of paper
- Sheet of paper showing a 7 to 9-digit number with meaning
- marker

Additional Resources

- <https://www.teacher.org/lesson-plan/the-value-of-a-number/>
- <https://www.education.com/lesson-plan/millions/>
- <https://www.commonsense.org/education/plans/place-value-up-to-100000>

Additional Notes

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3. Assign one student from each group to be the secretary to list at least 5 numbers the group will display to the class.
 4. Instruct the students to create enough digits to display the numbers to the rest of the class.
 5. Encourage students to work together and ensure everyone in the group is able to read each number.
 6. Encourage students to start out with smaller numbers and progress to larger numbers.
 7. Once all groups are ready, create an order for each group to present the numbers in front of the classroom.
 8. When a group first displays a number, the class will together read it aloud.
 9. Continue with the procedure until all groups have had a chance to display their created numbers.

Guided Practice

Day 3/ Lesson 3: 10 Mins

1. Hand out the example sheets of paper w/digits to several students.
2. Have those students create a number while standing in front of the room.
3. Call on students to read aloud the displayed number.
4. Give the labels to other students to display correctly.
5. Ensure that as many students as possible get to come to the front if the class and read out a number. This will help to know if they understand the topic.

Assessment Activity

Assessment Activity

1. Write three numbers on the board, one in standard form, one in word form, and one in expanded form.
2. Have students write each number in the other two forms (i.e., if the number is written in word form, students would write it in standard form and expanded form).
Possible numbers:
 - 2,942,013

Assessment Activity

1. At the end of the class have an oral and written assessment.
 2. First, have all the students number from 1 to 10 in their notebook. Say one of the numbers that you have covered in the lesson and have them write it down, make sure they know this is a quiz.
 3. When that assessment ends, have the students write out the numbers 1-10,000,000 e.g. one, ten, one hundred, one
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	<ul style="list-style-type: none"> - Sixteen million, eight hundred sixty seven thousand, four hundred fifty one - $7,000,000 + 200,000 + 9,000 + 400 + 80 + 5$ <p>3. Circulate and offer support as needed.</p>	<p>thousand, ten thousand, one hundred thousand, one million, ten million in their notebooks as well.</p>
Summary	<p>Review and Closing 10 Mins</p> <ol style="list-style-type: none"> 1. Ask for volunteers to share their answers to the problems assigned. 2. As the problems are reviewed in front of the class, have the students check their answers for accuracy. 3. Discuss the importance of understanding place value, why numbers have different values, etc. 	