

COUNTING IN THOUSANDS AND MILLIONS

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Subject

Mathematics

Prepared By

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Grade Level

4

Overview

This lesson plan covers teaching content for;

- 1. Counting in thousands and millions.
- 2. Applying counting of large numbers.

Objectives

Students should be able to;

- Count in thousands and millions.
- 2. Apply counting of large numbers.
- Solve quantitative aptitude related to thousands and millions.

Activity Starter/Instruction

- 1. With the pupils, practice counting in 10s, starting from any two-digit number.
- 2. Then count in 10s starting from any threedigit and then any four-digit number.
- 3. Repeat this activity, first counting in 5s, then in 100s, and finally in 1 000s. Make sure that the pupils are clear about what happens at the place value bridges (for example 99 to 100, 999 to 1 000, 9 999 to 10 000 and 99 999 to 100 000).

Guided Practice

Day 2/ Lesson 2: 15 Mins

- 1. Practice place values of numbers up to 100 000.
- 2. Design photocopiable place value tables and give a copy to each pupil.
- 3. Call out a few large numbers and have pupils write the numbers under their correct place values on their tables.

Teacher Guide

Day 1/ Lesson 1: 15 Mins

- 1.Demonstrate counting forwards and backwards using a number line. Write 997 and 998 on the middle of the line. Then, count forwards with the pupils, writing down the numbers as they are said.
- 2.Point out where the number of digits' changes from three digits to four digits.
- 3. Next, write the numbers 1 002 and 1 003 on the middle of the number line. This time, count backwards and point out where the number of digits' changes from four digits to three digits.
- 4. Repeat this activity for the 9 999 to 10 000 and 99 999 to 100 000 bridges.
- 5. Now practice counting in 2s, 5s, 10s, 100s and 1 000s, starting at different points.
- 6. Use the number line as support, and point to each mark as you count. Make sure the pupils can also count backwards over these bridges.
- 7. Write a number on the number line, for example 10 003, and ask the pupils if they know what 5 less than this number is. If necessary, count backwards together.

Materials Required

- Place value cards
- Number lines that are marked, but not numbered, over the place value boundaries.
- Abacus

Additional Resources

- https://www.brighthubeducation.com/esl-lesson-plans/76105-teach-your-esl-students-to-count-to-a-million/
- https://www.education.com/lesson-plan/many-many-millions/
- https://www.teacher.org/lesson-plan/the-valueof-a-number/
- https://www.scholastic.com/teachers/articles/18-19/grades-4-5-lessons-place-value/

Additional Notes

Activity Starter

- Bring newspapers or magazines or any other sources of media found in real life and ask pupils to look up word numbers and figure numbers.
- Ask them to explain the context in which these numbers are used in the media.

Summary

- Ask for volunteers to share their answers to the problems assigned.
- As the problems are reviewed in front of the class, have the students check their answers for accuracy.

- 4. Demonstrate that the pupil's place value table can be extended to an extra place value for millions.
- 5. Explain how the number 94 613 can be placed on the place value table by including the place holder, 0, for 100 000s and 1 000 000s.
- 6. Also point out that 94 613 is less than 100 000 and 1000 000

Guided Practice

Day 4/ Lesson 4: 15 Mins

- 1. Explain the concept of place values again and this time, emphasize the notion of a place holder and how it works.
- For example, explain that a number like 9008 contains only thousands and units – hundred and tens have no value in this particular number.
- 3. Now explain how large numbers are put into words by reading the number from left to right e.g. 2 014 867 has 2 million, 0 hundred thousand, 1 ten thousand, 4 thousand, 8 hundred, 6 tens and 7 units. Therefore, it is written as "two million, fourteen thousand, eight hundred and sixty-seven.

Assessment Activity

- 1. Pupils should understand the use of place holders in large numbers.
- 2. Pupils should be able to write large numbers in words.
- 3. Pupils can work in pairs and write numbers for each other

Guided Practice

Day 3/ Lesson 3: 15 Mins

- 1.Demonstrate how to count forward and backward in millions.
- 2.At first, concentrate on rounded values i.e, 1 000 000, 2 000 000, etc.
- 3. Follow this by counting in the intermediate million values i.e. 1 100 000, 2 100 000, etc.
- 4. Pupils should count forward and backward in these intermediate numbers.
- 5.Introduce the copies of the paper abacus (you might want to have printed copies of these for each pupil).
- 6.Show how place values can be identified on the abacus by means of coloring the appropriate number of abacus beads.
- 7.In particular, show the pupils how the abacus matches the columns of the place value table.

Assessment Activity

- 1. Pupils to find out how many minutes there are in July.
- 2.Ask pupils to research and find out the distance of all the planets from the Sun.