



Introduction

Welcome to our lesson on mastering 7-digit numbers and beyond! In this activity sheet, we will explore the concept of reading, writing, and ordering 7-digit numbers and above. This lesson is designed for Year 5 students in Western Australia, aligning with the Western Australian curriculum outcomes and assessment standards, as well as SCSA standards.

For students who require additional support, we will provide visual aids and real-life examples to illustrate the concept of 7-digit numbers and above.

For students who require core support, we will provide guided practice exercises that cater to different learning styles.

For students who require extension, we will provide challenging activities that require critical thinking and problem-solving.

Reading 7-Digit Numbers

Read the following 7-digit numbers and write them in words:

1. 456,789
2. 123,456
3. 987,654

Use visual aids, such as number lines or hundreds charts, to help you read the numbers.
Use your understanding of place value to read the numbers.
Create your own 7-digit numbers and write them in words.

Writing 7-Digit Numbers

Write the following numbers in standard form:

1. Four hundred and fifty-six thousand, seven hundred and eighty-nine
2. One hundred and twenty-three thousand, four hundred and fifty-six
3. Nine hundred and eighty-seven thousand, six hundred and fifty-four

Use visual aids, such as number lines or hundreds charts, to help you write the numbers.

Use your understanding of place value to write the numbers.

Create your own numbers in words and write them in standard form.

Ordering 7-Digit Numbers

Order the following numbers from smallest to largest:

1. 234,567
2. 456,789
3. 123,456

Use visual aids, such as number lines or hundreds charts, to help you order the numbers.

Use your understanding of place value to order the numbers.

Create your own set of 7-digit numbers and order them from smallest to largest.

Real-World Applications

Solve the following real-world problems:

1. A city has a population of 456,789 people. If the population grows by 10% each year, what will the population be in 5 years?
2. A company has a budget of \$987,654 for a new project. If they spend \$456,789 on equipment, what percentage of the budget remains?

Use visual aids, such as graphs or charts, to help you solve the problems.

Use your understanding of place value and percentages to solve the problems.

Create your own real-world problems and solve them using 7-digit numbers and above.

Technology Integration

*Use online tools or educational apps to practice reading, writing, and ordering 7-digit numbers and above.
Some recommended resources include:*

- Math Playground
- Khan Academy
- IXL

Use visual aids and guided support to help you use the technology.
Use your understanding of place value to complete the online activities.
Create your own online activities or games to practice 7-digit numbers and above.

Word Problems

Solve the following word problems:

1. A bookshelf has 5 shelves, and each shelf can hold 123,456 books. If the bookshelf is currently empty, how many books can be placed on it in total?
2. A water tank can hold 987,654 liters of water. If 456,789 liters of water are already in the tank, how much more water can be added?

Use visual aids, such as diagrams or pictures, to help you solve the problems.

Use your understanding of place value and multiplication to solve the problems.

Create your own word problems and solve them using 7-digit numbers and above.

Patterns and Relationships

Identify the pattern in the following sequence:

1. 123,456
2. 234,567
3. 345,678

Use visual aids, such as number lines or hundreds charts, to help you identify the pattern.
Use your understanding of place value to identify the pattern.
Create your own sequence and identify the pattern.

Review

Review the concepts learned in this activity sheet by completing the following exercises:

1. Read and write the number 456,789 in words.
2. Order the numbers 123,456, 234,567, and 345,678 from smallest to largest.
3. Solve the word problem: A city has a population of 456,789 people. If the population grows by 10% each year, what will the population be in 5 years?

Use visual aids and guided support to help you complete the exercises.

Use your understanding of place value to complete the exercises.

Create your own review exercises and complete them using 7-digit numbers and above.

Conclusion

Congratulations on completing this activity sheet! You have mastered the concept of reading, writing, and ordering 7-digit numbers and above. Remember to apply your understanding of place value and technology to solve real-world problems. Keep practicing and soon you will become a master of number and algebra!

Advanced Concepts

As students progress in their understanding of 7-digit numbers and beyond, they can explore more advanced concepts such as multiplying and dividing large numbers. This can be achieved through the use of visual aids, such as arrays and number lines, to help students understand the relationships between numbers. For example, students can use arrays to multiply 456,789 by 3, or use number lines to divide 987,654 by 4.

Example

Multiply 456,789 by 3 using an array:



Group Activity

Divide into small groups and create a real-world scenario where multiplying or dividing large numbers is necessary. Present your scenario to the class and explain how you would solve the problem.

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Real-World Applications

Large numbers are used in a variety of real-world applications, such as science, engineering, and finance. For example, scientists use large numbers to measure the distance between galaxies, while engineers use large numbers to design and build complex systems. In finance, large numbers are used to calculate interest rates and investment returns.

Case Study

A company is investing \$10,000,000 in a new project. If the investment returns an annual interest rate of 5%, how much will the company have after 5 years? Use large numbers to calculate the interest and total amount.

Reflection

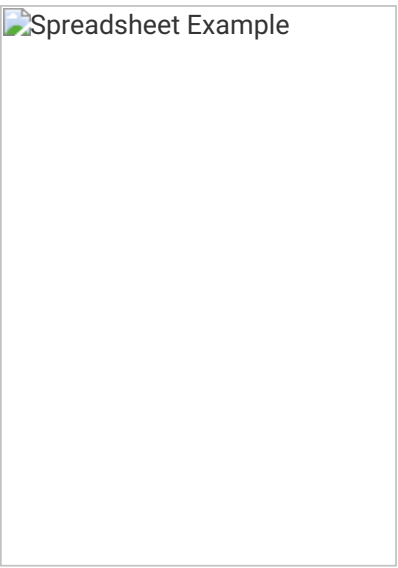
Reflect on how large numbers are used in your everyday life. Think about how you use large numbers to make decisions or solve problems. Write a short paragraph explaining your thoughts.

Technology Integration

Technology can be used to enhance the learning experience when working with large numbers. Spreadsheets, calculators, and computer programming can all be used to perform calculations and visualize data. For example, students can use a spreadsheet to calculate the interest on an investment, or use a calculator to convert between different units of measurement.

Example

Use a spreadsheet to calculate the interest on an investment of \$10,000,000 at an annual interest rate of 5% over 5 years.



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Group Activity

Divide into small groups and create a presentation using technology to demonstrate a real-world application of large numbers. Present your presentation to the class and explain how you used technology to enhance your learning.

Assessment and Evaluation

Assessment and evaluation are critical components of the learning process. Teachers can use a variety of methods to assess student understanding, including quizzes, tests, and projects. For example, a quiz can be used to assess student understanding of multiplying and dividing large numbers, while a project can be used to assess student ability to apply large numbers to real-world scenarios.

Case Study

A teacher wants to assess student understanding of large numbers. Create a quiz with 10 questions that cover the key concepts, including multiplying and dividing large numbers, and applying large numbers to real-world scenarios.

Reflection

Reflect on how you have learned and grown throughout this unit. Think about what you have learned, what you have struggled with, and what you would like to learn more about. Write a short paragraph explaining your thoughts.

Conclusion

In conclusion, large numbers are an essential concept in mathematics, and are used in a variety of real-world applications. By using visual aids, technology, and real-world scenarios, students can develop a deep understanding of large numbers and how to apply them to solve problems. Remember to always use large numbers to make informed decisions and solve complex problems.

Example

Use large numbers to calculate the distance between two cities. If the distance between the cities is 4,567,890 meters, and a car travels at an average speed of 50 kilometers per hour, how long will it take to travel between the cities?

Group Activity

Divide into small groups and create a presentation to summarize what you have learned throughout this unit. Present your presentation to the class and explain how you will apply what you have learned to real-world scenarios.

Glossary

A glossary of key terms is essential for any mathematics unit. The following terms are defined: large numbers, place value, multiplication, division, and real-world applications.

Case Study

Create a glossary of key terms for this unit, including definitions and examples. Share your glossary with the class and explain why you chose the terms you did.

Reflection

Reflect on what you have learned throughout this unit. Think about what you have learned, what you have struggled with, and what you would like to learn more about. Write a short paragraph explaining your thoughts.

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PLANIT
TEACHERS

Mastering 7-Digit Numbers and Beyond: An Introduction to Year 5 Number and Algebra

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Create your own 7-digit numbers and write them in words.

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Use visual aids, such as number lines or hundreds charts, to help you write the numbers.

Use your understanding of place value to write the numbers.

Create your own numbers in words and write them in standard form.

Ordering 7-Digit Numbers

Order the following numbers from smallest to largest:

1. 234,567
2. 456,789
3. 123,456

Use visual aids, such as number lines or hundreds charts, to help you order the numbers.

Use your understanding of place value to order the numbers.

Create your own set of 7-digit numbers and order them from smallest to largest.

Real-World Applications

Solve the following real-world problems:

1. A city has a population of 456,789 people. If the population grows by 10% each year, what will the population be in 5 years?
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Use your understanding of place value to identify the pattern.
Create your own sequence and identify the pattern.

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Review the concepts learned in this activity sheet by completing the following exercises:

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Create your own review exercises and complete them using 7-digit numbers and above.

Conclusion

Congratulations on completing this activity sheet! You have mastered the concept of reading, writing, and ordering 7-digit numbers and above. Remember to apply your understanding of place value and technology to solve real-world problems. Keep practicing and soon you will become a master of number and algebra!