



Introduction to Integers (10 minutes)

Read the following introduction to integers and answer the questions:

Integers are whole numbers, either positive, negative, or zero, without a fractional part. They are used to represent a wide range of real-world quantities, such as temperatures, distances, and populations.

1. What is an integer?

2. Give an example of a real-world quantity that can be represented by an integer.

Properties of Integers (15 minutes)

Read the following properties of integers and answer the questions:

Integers have several important properties, including commutativity, associativity, and distributivity.

1. What is commutativity? Give an example.

2. What is associativity? Give an example.

3. What is distributivity? Give an example.



Integer Operations (20 minutes)

Read the following integer operations and answer the questions:

Integers can be added, subtracted, multiplied, and divided. The rules for these operations are based on the properties of integers.

1. What is the sum of 2 and 3?

2. What is the difference of 5 and 2?

3. What is the product of 2 and 3?

4. What is the quotient of 6 and 2?

Real-World Applications of Integers (15 minutes)

Read the following real-world applications of integers and answer the questions:

Integers have many real-world applications, including finance, science, and engineering.

1. Give an example of how integers are used in finance.

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2. Give an example of how integers are used in science.

3. Give an example of how integers are used in engineering.

Practice Exercises (20 minutes)

Complete the following practice exercises:

1. What is the sum of 2 and 3?

2. What is the difference of 5 and 2?

3. What is the product of 2 and 3?

4. What is the quotient of 6 and 2?

5. A person has \$100 in their bank account. They deposit \$50 and then withdraw \$20. How much money do they have left?

Assessment and Evaluation (15 minutes)

Complete the following assessment and evaluation exercises:

1. Simplify the expression: $2(3 + 4)$

2. Solve the equation: $x + 2 = 5$

3. A bakery sells 250 loaves of bread per day. If they make a profit of \$0.50 per loaf, how much profit do they make in a day?

Conclusion (10 minutes)

Read the following conclusion and answer the questions:

In conclusion, integers are whole numbers, either positive, negative, or zero, without a fractional part. They have several important properties, including commutativity, associativity, and distributivity. Integers can be added, subtracted, multiplied, and divided, and have many real-world applications.

1. What is the main idea of this guide?

2. What are some important properties of integers?

3. Give an example of a real-world application of integers.

Additional Resources (10 minutes)

Explore the following additional resources:

For additional practice and review, you can use the following resources: online integer games and puzzles, integer worksheets and practice exercises, and real-world applications of integers.

1. What are some online resources for practicing integers?

2. What are some real-world applications of integers?

Glossary (10 minutes)

Read the following glossary and answer the questions:

A glossary of terms related to integers, including commutativity, associativity, and distributivity.

1. What is commutativity?

2. What is associativity?

3. What is distributivity?

Reflection and Conclusion (10 minutes)

Reflect on what you have learned and answer the questions:

Reflect on what you have learned about integers and how you can apply it in real-world situations.

1. What did you learn about integers?

2. How can you apply what you learned in real-world situations?

