



Introduction to Three-Digit Subtraction with Regrouping

Welcome to our math adventure! In this activity, we will explore the exciting world of three-digit subtraction with regrouping. You will learn how to solve real-world problems using this essential math skill. Get ready to have fun and become a math master!

What is Three-Digit Subtraction with Regrouping?

Three-digit subtraction with regrouping is a math operation that involves subtracting three-digit numbers using regrouping. Regrouping is when we borrow from one place value to another. For example, when subtracting 247 from 375, we need to regroup the hundreds place to borrow from the tens place.

Activity 1: Matching Game

Match the following numbers to their correct place value:

- 456: _____
- 279: _____
- 100: _____
- 10: _____
- 1: _____

Answers:

- 456: Hundreds
- 279: Hundreds
- 100: Hundreds
- 10: Tens
- 1: Ones

Real-World Scenarios

Three-digit subtraction with regrouping is used in real-world scenarios, such as:

- Calculating the remaining balance in a bank account
- Determining the cost of items at a store
- Finding the difference in time between two events

Activity 2: Word Problems

Solve the following word problems:

1. Tom has \$456 in his piggy bank. He spends \$279 on a new toy. How much money does Tom have left?
2. A bookshelf has 456 books on it. If 279 books are removed, how many books are left on the bookshelf?
3. A water tank can hold 456 liters of water. If 279 liters of water are already in the tank, how much more water can be added?

Answers:

1. \$177
2. 177 books
3. 177 liters

Visual Aids

Visual aids, such as base-ten blocks or hundreds charts, can help us understand the concept of regrouping.

Activity 3: Base-Ten Blocks

Use base-ten blocks to solve the following problem:

$$456 - 279 = ?$$

Answer: 177

Practice Time!

Practice solving three-digit subtraction problems with regrouping:

1. $456 - 279 = ?$
2. $945 - 378 = ?$
3. $753 - 219 = ?$

Answers:

1. 177
2. 567
3. 534

Real-World Applications

Three-digit subtraction with regrouping is used in various real-world applications, such as:

- Finance: calculating the remaining balance in a bank account
- Science: measuring the difference in temperature or the amount of rainfall
- Social Studies: calculating the cost of goods and services

Activity 4: Case Study

Read the following case study and answer the questions:

Tom has \$456 in his savings account. He withdraws \$279 to buy a gift. If he then deposits \$100, how much money does Tom have in his account now?

1. How much money did Tom have initially?
2. How much money did Tom withdraw?
3. How much money does Tom have now?

Answers:

1. \$456
2. \$279
3. \$277

Games and Puzzles

Play the following games and puzzles to practice three-digit subtraction with regrouping:

- Subtraction Bingo
- Math War
- Subtraction Puzzle

Reflection

Reflect on what you have learned so far. What are some challenges you faced? What are some strategies you used to overcome them?

Extension Activity

Create your own real-world scenario that involves three-digit subtraction with regrouping. Write a short story or create a visual project that demonstrates your understanding of the concept.

Assessment

Assess your understanding of three-digit subtraction with regrouping by completing the following quiz:

1. $456 - 279 = ?$
2. $945 - 378 = ?$
3. $753 - 219 = ?$

Answers:

1. 177
2. 567
3. 534

Conclusion

Congratulations! You have completed the activity on solving real-world problems using three-digit subtraction with regrouping. Remember to practice regularly and apply your knowledge to real-world scenarios. Happy math adventures!

