

3rd Grade Math: Subtraction Without Regrouping

Lesson Objective:

By the end of this lesson, students will:

- Understand how to subtract multi-digit numbers without regrouping.
- Solve subtraction problems where regrouping is not required.
- Apply subtraction skills in real-world scenarios.

1. Introduction to Subtraction Without Regrouping

What is Subtraction?

- **Subtraction** is the process of taking one number away from another.

What is Regrouping?

- **Regrouping** happens when the digit in the top number is smaller than the one below it. But in this lesson, we will focus on problems that do not require regrouping, meaning the top number in each place value is larger than or equal to the bottom number.

2. Steps for Subtraction Without Regrouping

Step 1: Align the Numbers

- Write the numbers vertically, making sure the digits are aligned by their place values (ones, tens, hundreds).

Step 2: Subtract from Right to Left

- Start by subtracting the digits in the ones place, then move to the tens, hundreds, and so on.


Step 3: Write the Difference

- Write the difference for each place value below the line.

3. Example Problems

Example 1: Subtracting 2-Digit Numbers Without Regrouping


- Problem: $53 - 21$
 - Align the numbers:

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53

- 21


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- Subtract the ones place: $3 - 1 = 2$.
- Subtract the tens place: $5 - 2 = 3$.
- Answer: ****32****

Example 2: Subtracting 3-Digit Numbers Without Regrouping


- Problem: $456 - 123$
 - Align the numbers:

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456

- 123

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- Subtract the ones place: $6 - 3 = 3$.
- Subtract the tens place: $5 - 2 = 3$.
- Subtract the hundreds place: $4 - 1 = 3$.
- Answer: ****333****

Example 3: Subtracting 4-Digit Numbers Without Regrouping

- Problem: $3,512 - 2,301$
 - Align the numbers:


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3512

- 2301

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- Subtract the ones place: $2 - 1 = 1$.
- Subtract the tens place: $1 - 0 = 1$.
- Subtract the hundreds place: $5 - 3 = 2$.
- Subtract the thousands place: $3 - 2 = 1$.
- Answer: **1,211**

4. Practice Problems

Activity 1: Solve the Following Problems

1. $45 - 12 = ?$
2. $78 - 34 = ?$
3. $256 - 123 = ?$
4. $634 - 401 = ?$
5. $512 - 311 = ?$

4. Wrap-Up

Key Takeaways:

- Subtraction without regrouping is simple when the digits in the top number are larger than or equal to those below them.
- Always align numbers by their place values before subtracting.

Exit Question:

- Solve: $542 - 231 = ?$