

3rd Grade Math: Addition without Regrouping

Lesson Objective:

By the end of this lesson, students will be able to:

- Add multi-digit numbers without regrouping.
- Understand the steps involved in adding numbers by aligning place values.
- Solve addition problems and apply the concept in real-life situations.

1. Introduction to Addition without Regrouping

What is Addition?

- Addition is the process of putting together two or more numbers to get a larger number called the **sum**.

What Does "Without Regrouping" Mean?

- When adding two or more numbers, if the sum of digits in any place value column is less than 10, no regrouping (or carrying) is needed.
- **Example:**
If you add $23 + 14$, you add the digits in the ones place first ($3 + 4 = 7$), then add the digits in the tens place ($2 + 1 = 3$). No regrouping is necessary because both sums are less than 10.

2. Steps for Addition without Regrouping

Step 1: Align the Numbers

- Make sure the numbers are written with their place values aligned.
 - Example:

```
diff                                                                    Copy code

  25
+ 13
```

Step 2: Add the Ones Place First

- Start by adding the digits in the ones place (rightmost column).
 - Example:
 $5 + 3 = 8$

Step 3: Add the Tens Place

- Move to the next column, the tens place, and add the digits.
 - Example:
 $2 + 1 = 3$

Step 4: Write the Final Sum

- Write down the result.
 - Example:

```
markdown                                                                    Copy code

  25
+ 13
----
 38
```

3. Examples of Addition without Regrouping

Example 1:

- Problem: $46 + 32$
 - Align the numbers:

```
diff                                                                    Copy code

  46
+ 32
```

- Add the ones place: $6 + 2 = 8$
- Add the tens place: $4 + 3 = 7$
- Sum: **78**

Example 2:

- Problem: $51 + 24$
 - Align the numbers:

diff

 Copy code

```
51
+ 24
```

- Add the ones place: $1 + 4 = 5$
- Add the tens place: $5 + 2 = 7$
- Sum: 75

4. Practice Problems

Activity 1: Solve the Following

- $63 + 25 = ?$
- $72 + 16 = ?$
- $34 + 53 = ?$
- $18 + 41 = ?$
- $80 + 17 = ?$

5. Real-World Application of Addition without Regrouping

Example 1: Adding Scores

- You and your friend are playing a game. You scored 26 points, and your friend scored 33 points. How many points do you have altogether?
 - Align the numbers:

diff

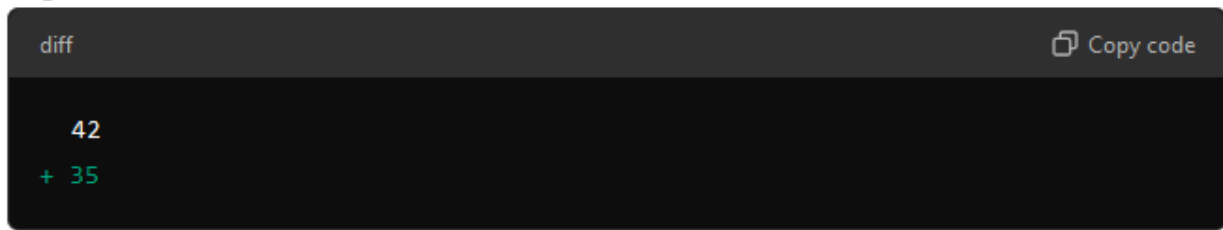
 Copy code

```
26
+ 33
```

- Add the ones place: $6 + 3 = 9$
- Add the tens place: $2 + 3 = 5$
- Total points: 59

Example 2: Adding Money

- You have \$42 in your piggy bank, and your birthday card comes with \$35. How much money do you have now?
 - Align the numbers:



```
diff Copy code
42
+ 35
```

- Add the ones place: $2 + 5 = 7$
- Add the tens place: $4 + 3 = 7$
- Total money: **77 dollars**

6. Wrap-Up

Key Takeaways:

- Addition without regrouping is simple because the sum of the digits in each place value column is less than 10.
- Make sure to align the numbers based on their place values (ones under ones, tens under tens, etc.).

Exit Question:

- Solve: $64 + 12 = ?$