2nd Grade Math: Addition with Regrouping in 10s

What Does Addition with Regrouping in 10s Mean?

Addition with regrouping in 10s involves adding two-digit numbers where the sum of the digits in the tens place exceeds 9. When this happens, you need to carry over to the hundreds place.

Steps for Adding Two-Digit Numbers with Regrouping in 10s

- 1. Line Up the Numbers: Write the numbers one above the other, aligning them by place value (tens and ones).
- 2. Add the Ones Place: Start by adding the digits in the ones place.
- 3. Add the Tens Place: Add the digits in the tens place.
- 4. **Regroup if Necessary**: If the sum of the tens place is 10 or more, write down the ones digit and carry over the tens digit to the hundreds place.
- 5. Write the Final Sum: Combine the results to get the final answer.

Example 1: Adding Two-Digit Numbers with Regrouping in 10s

Problem: Add 67 + 58.

Step 1: Line up the numbers.

diff		🗗 Copy code
67		
+ 58		

Step 2: Add the ones place:

7 + 8 = 15.

• Write down 5 and carry over 1 to the tens place.

Step 3: Add the tens place:

6 + 5 + 1 (carried over) = 12.

• Write down 2 and carry over 1 to the hundreds place.

Step 4: Since there's nothing to add in the hundreds place, the result is 12.

Final Sum: The sum is 125.

Example 2: Adding Two-Digit Numbers with Regrouping in 10s

Problem: Add 85 + 47.

Step 1: Line up the numbers.

diff		🗗 Copy code
85		
+ 47		

Step 2: Add the ones place:

5 + 7 = 12.

• Write down 2 and carry over 1 to the tens place.

Step 3: Add the tens place:

8 + 4 + 1 (carried over) = 13.

• Write down 3 and carry over 1 to the hundreds place.

Step 4: Since there's nothing to add in the hundreds place, the result is 1.

Final Sum: The sum is 132.

Practice Problems

- 1. Add the following two-digit numbers:
 - o 76 + 29 = ____
 - o 48 + 35 = ____
 - o **93 + 27 =**
- 2. Fill in the blanks:
 - o 54 + ___ = 100
 - o ____ + 62 = 119
- 3. Solve these addition problems with regrouping in 10s:
 - o **39 + 64 =**____
 - o **58 + 46 =**____

Conclusion

Addition with regrouping in 10s is a vital skill for solving more complex addition problems. By practicing the steps and engaging in fun activities, students can become confident in adding two-digit numbers that require carrying over to the next place value.