

2nd Grade Math: Addition with Regrouping in 1s and 10s

What Does Addition with Regrouping in 1s and 10s Mean?

Addition with regrouping in 1s and 10s involves adding two-digit numbers where the sum of the digits in the ones place or the tens place exceeds 9. When this happens, you need to carry over to the next place value.

Steps for Adding Two-Digit Numbers with Regrouping in 1s and 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. **Regroup if Necessary:** If the sum of the ones place is 10 or more, write down the ones digit and carry over the tens digit to the tens place.
4. **Add the Tens Place:** Next, add the digits in the tens place, including any carried-over value.
5. **Write the Final Sum:** Combine the results to get the final answer.

Example 1: Adding Two-Digit Numbers with Regrouping

Problem: Add $76 + 48$.

Step 1: Line up the numbers.



```
diff                                                                    Copy code

  76
+ 48
```

Step 2: Add the ones place:

$$6 + 8 = 14.$$

- Write down 4 and carry over 1 to the tens place.

Step 3: Add the tens place:

$$7 + 4 + 1 \text{ (carried over)} = 12.$$

- 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 1.

Final Sum: The sum is 124.

Example 2: Adding Two-Digit Numbers with Regrouping

Problem: Add $59 + 67$.

Step 1: Line up the numbers.

```
diff                                                                    Copy code
59
+ 67
```

Step 2: Add the ones place:

$$9 + 7 = 16.$$

- Write down 6 and carry over 1 to the tens place.

Step 3: Add the tens place:

$$5 + 6 + 1 \text{ (carried over)} = 12.$$

- 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 1.

Final Sum: The sum is 126.

Practice Problems

1. Add the following two-digit numbers:
 - $34 + 79 = \underline{\quad}$
 - $48 + 55 = \underline{\quad}$
 - $92 + 37 = \underline{\quad}$
2. Fill in the blanks:
 - $66 + \underline{\quad} = 100$
 - $\underline{\quad} + 74 = 132$
3. Solve these addition problems with regrouping in 1s and 10s:
 - $78 + 49 = \underline{\quad}$
 - $83 + 29 = \underline{\quad}$

Conclusion

Addition with regrouping in 1s and 10s is an essential skill that helps students solve 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.

