2nd Grade Math: Mental Addition

What Is Mental Addition?

Mental addition means adding numbers in your head without writing them down or using a calculator. It's a helpful skill that makes solving math problems quicker and easier.

Strategies for Mental Addition

1. Counting On:

- Start with the bigger number and count up.
- **Example**: To add 7 + 3, start with 7 and count: 8, 9, 10. The sum is 10.

2. Making Tens:

- Break numbers apart to make a group of ten.
- **Example**: To add 8 + 5, think of 8 as 10 2. Add 10 + 3 (since 5 is 3 more than 2) = 13.

3. Add in Parts:

- Break numbers into smaller, easier parts.
- **Example**: To add 16 + 8, break 16 into 10 and 6. Add 10 + 8 = 18, then 18 + 6 = 24.

4. Round and Adjust:

- Round one number to the nearest ten, add, then adjust.
- **Example**: To add 29 + 6, round 29 to 30. Add 30 + 6 = 36, then subtract 1 (because 29 is 1 less than 30). The sum is 35.

Example: Mental Addition

Problem: What is 12 + 9?

Solution:

- Start with 12.
- Add 9 by breaking it into 8 + 1.
- 12 + 8 = 20, then add 1: 20 + 1 = 21.
- The sum is **21**.

Real-World Example of Mental Addition

Scenario: You have 17 pencils, and you find 8 more in your drawer. How many pencils do you have in total?

- Break 8 into 3 + 5.
- Add 17 + 3 = 20, then 20 + 5 = 25.
- You have **25 pencils**.

Practice Problems

1. **Problem**: Add 15 + 7.

- **Solution**: 15 + 5 = 20, then 20 + 2 = 22.
- The sum is **22**.
- 2. **Problem**: Add 23 + 9.
 - **Solution**: Round 23 to 20, then add 9. 20 + 9 = 29, add back 3: 29 + 3 = 32.
 - The sum is **32**.

Benefits of Mental Addition

- Quick Calculation: You can solve problems faster without using paper.
- Improves Focus: Helps sharpen your mind and attention to numbers.
- Useful in Daily Life: Mental math helps with activities like shopping, counting money, or measuring.

Conclusion

Mental addition is a powerful tool for quickly adding numbers without writing them down. By practicing strategies like **counting on**, **making tens**, and **rounding**, students can become faster and more confident in solving addition problems mentally.