2nd Grade Math: Addition and Subtraction Facts Within 20

What Are Addition and Subtraction Facts?

Addition facts are simple math problems where you combine two numbers to find a total. **Subtraction facts** involve taking one number away from another to find the difference. Mastering these facts helps build a strong foundation for more complex math skills.

Addition Facts Within 20

Key Addition Strategies:

1. **Counting On**: Start with the larger number and count up.
    - Example: To solve 7 + 5, start at 7 and count up 5 more (8, 9, 10, 11, 12).
2. **Making Ten**: Use pairs of numbers that add up to ten to simplify addition.
    - Example: 8 + 5 can be thought of as 8 + 2 + 3 = 10 + 3 = 13.
3. **Using Doubles**: Remember pairs of numbers that are the same.
    - Example: 4 + 4 = 8, so 4 + 5 = 8 + 1 = 9.

Practice Problems for Addition:

1. Solve the following addition problems:
    - 3 + 4 = ___
    - 9 + 6 = ___
    - 5 + 7 = ___
2. Fill in the missing number:
    - ___ + 6 = 10
    - 8 + ___ = 14

Subtraction Facts Within 20

Key Subtraction Strategies:

1. **Counting Back**: Start with the larger number and count backwards.
    - Example: To solve 10 - 4, start at 10 and count back 4 (9, 8, 7, 6).
2. **Using Addition to Subtract**: Think of subtraction as the opposite of addition.
    - Example: If you know that 6 + 4 = 10, then 10 - 4 = 6.
3. **Finding the Missing Part**: If you know the total and one part, you can find the other part.
    - Example: In the equation 8 - ___ = 3, you can think: What number plus 3 equals 8? (The answer is 5).

Practice Problems for Subtraction:

1. Solve the following subtraction problems:
    - 15 - 7 = ___

- 9 - 3 = ___
- 12 - 5 = ___

2. Fill in the missing number:
   - 14 - ___ = 9
   - ___ - 6 = 4

Conclusion

Mastering addition and subtraction facts within 20 is essential for developing strong math skills. By practicing different strategies and engaging in fun activities, students can build confidence and fluency in basic math operations.