

Using Mental Math To Subtract 3rd Grade

Name _____

Date _____



SUBTRACTING ONES SHEET 2



All these questions involve finding the missing subtraction fact.

- | | |
|-----------------------------------|-----------------------------------|
| 1) $65 - \underline{\quad} = 63$ | 16) $\underline{\quad} - 2 = 51$ |
| 2) $54 - \underline{\quad} = 50$ | 17) $\underline{\quad} - 1 = 77$ |
| 3) $19 - \underline{\quad} = 16$ | 18) $\underline{\quad} - 3 = 62$ |
| 4) $27 - \underline{\quad} = 21$ | 19) $\underline{\quad} - 5 = 51$ |
| 5) $38 - \underline{\quad} = 33$ | 20) $\underline{\quad} - 4 = 46$ |
| 6) $61 - \underline{\quad} = 59$ | 21) $67 - \underline{\quad} = 59$ |
| 7) $82 - \underline{\quad} = 77$ | 22) $82 - 7 = \underline{\quad}$ |
| 8) $95 - \underline{\quad} = 90$ | 23) $\underline{\quad} - 6 = 37$ |
| 9) $66 - \underline{\quad} = 61$ | 24) $60 - \underline{\quad} = 52$ |
| 10) $41 - \underline{\quad} = 35$ | 25) $\underline{\quad} - 5 = 86$ |
| 11) $\underline{\quad} - 3 = 12$ | 26) $\underline{\quad} - 7 = 77$ |
| 12) $\underline{\quad} - 4 = 10$ | 27) $76 - \underline{\quad} = 69$ |
| 13) $\underline{\quad} - 5 = 30$ | 28) $80 - \underline{\quad} = 73$ |
| 14) $\underline{\quad} - 1 = 29$ | 29) $\underline{\quad} - 5 = 38$ |
| 15) $\underline{\quad} - 2 = 37$ | 30) $\underline{\quad} - 7 = 27$ |

Remember to check your answers through carefully when you have finished to make sure your subtraction facts are correct.



Using Mental Math to Subtract for 3rd Grade

In the journey of mathematical education, mastering subtraction is a fundamental skill that serves as a foundation for more advanced concepts. For 3rd graders, developing the ability to perform mental math, especially subtraction, can enhance their problem-solving abilities and boost their confidence in handling numbers. This article will explore various mental math strategies that can help 3rd graders subtract more efficiently and effectively, making math a less daunting subject and encouraging a love for numbers.

The Importance of Mental Math in Subtraction

Mental math refers to the ability to perform calculations in one's head without the use of paper, calculators, or other aids. For 3rd graders, mastering mental subtraction has several benefits:

1. Improved Speed: Mental math allows students to solve problems quickly, which is particularly useful during timed tests or competitions.
2. Enhanced Number Sense: Understanding subtraction helps students grasp the relationship between numbers, paving the way for more complex mathematical concepts.
3. Increased Confidence: Successfully performing mental calculations can boost a child's self-esteem and willingness to tackle more challenging math problems.
4. Practical Application: Mental math skills are essential in everyday situations, such as budgeting, shopping, and cooking.

Basic Subtraction Strategies

Before diving into advanced mental math techniques, it's essential to ensure that 3rd graders have a solid foundation in basic subtraction. Here are some fundamental strategies:

1. Counting Backwards

Counting backwards is a simple yet effective method for subtraction. Children can visualize the subtraction process by counting down from the larger number. For example, to solve $15 - 7$, they can count back from 15:

- 15 (start)
- 14 (1)
- 13 (2)
- 12 (3)
- 11 (4)
- 10 (5)
- 9 (6)
- 8 (7)

Thus, $15 - 7$ equals 8.

2. Using Number Lines

A number line is a visual tool that helps students understand subtraction. By moving left on the number line, children can see how numbers decrease. For

example, if they want to subtract 4 from 12, they can start at 12 and move left four spaces to reach 8.

3. Break Apart Method

Breaking apart numbers into smaller, more manageable parts is another effective strategy. It involves separating numbers into tens and ones. For instance:

To solve $34 - 26$:

- Break apart 34 into 30 and 4.
- Break apart 26 into 20 and 6.
- Subtract the tens: $30 - 20 = 10$.
- Subtract the ones: $4 - 6$. Since 4 is smaller, we borrow 10 from the previous result, making it $14 - 6 = 8$.
- Combine the results: $10 + 8 = 18$.

Advanced Mental Math Techniques

Once students are comfortable with basic strategies, they can explore more advanced mental math techniques that make subtraction easier and faster.

1. Compensation Method

The compensation method involves adjusting one number to make the subtraction easier, then adjusting the result accordingly. For example, to solve $52 - 29$:

- Round 29 up to 30 (an easier number to subtract).
- Subtract: $52 - 30 = 22$.
- Since we added 1 to 29 to make it 30, we need to add that 1 back to the result: $22 + 1 = 23$.

Thus, $52 - 29 = 23$.

2. Using Landmark Numbers

Landmark numbers are numbers that are easy to work with, such as 10, 20, 50, and 100. This technique involves rounding to the nearest landmark number. Consider the example of $73 - 29$:

- Round 29 up to 30.
- Subtract: $73 - 30 = 43$.
- Since we rounded up by 1, we add it back: $43 + 1 = 44$.

Thus, $73 - 29 = 44$.

3. Doubling and Halving

The doubling and halving technique works well with numbers that can be easily manipulated. If one number is even, it can often be halved to make calculations simpler. For example, to solve $64 - 32$:

- Halve both numbers: 32 becomes 16, and 64 becomes 32.
- Now subtract: $32 - 16 = 16$.

Thus, $64 - 32 = 32$.

Practice Makes Perfect

To truly master mental math subtraction, regular practice is essential. Here are some fun and engaging activities that can help 3rd graders hone their skills:

1. Flashcards

Create flashcards with subtraction problems on one side and answers on the other. Have students practice with a partner or alone, timing themselves to improve speed and accuracy.

2. Math Games

Incorporate games that involve subtraction, such as:

- Subtraction Bingo: Create bingo cards with answers to subtraction problems. Call out subtraction problems, and students must find the correct answer on their card.
- Board Games: Use board games that require players to solve subtraction problems to advance.

3. Real-Life Applications

Encourage students to use mental subtraction in everyday situations, such as:

- Shopping: Ask them to calculate the total cost after discounts.
- Cooking: Have them adjust recipes by subtracting ingredients.

Encouraging a Positive Mindset Towards Math

Mental math, particularly subtraction, can be intimidating for some students. As educators and parents, it's crucial to cultivate a positive mindset towards math. Here are some tips:

1. Celebrate Small Wins: Acknowledge progress and celebrate when students achieve their goals, no matter how small.
2. Provide Encouragement: Offer positive reinforcement and remind students that making mistakes is a part of learning.
3. Create a Supportive Environment: Encourage collaboration and group work, so students can learn from each other.

Conclusion

Using mental math to subtract is not just about getting the right answer; it's about developing a deeper understanding of numbers and their relationships. By employing various strategies such as counting backwards, compensation, and landmark numbers, 3rd graders can enhance their subtraction skills and confidence in math. With regular practice and a positive attitude, students will find that mental math can be fun and rewarding. As they progress in their mathematical journey, these skills will serve them well in tackling more complex problems and in everyday life.

Frequently Asked Questions

What is mental math and how can it help with subtraction in 3rd grade?

Mental math is the ability to perform calculations in your head without using a calculator or paper. It helps 3rd graders quickly solve subtraction problems, improving their number sense and speeding up their calculations.

How can students practice mental subtraction effectively?

Students can practice mental subtraction by using number lines, practicing with flashcards, or playing math games that involve subtraction to enhance their skills.

What are some strategies for subtracting numbers mentally?

Some strategies include breaking numbers apart (decomposing), using related

addition facts, and rounding numbers to make calculations easier before adjusting the result.

Can you give an example of a mental math subtraction problem suitable for 3rd graders?

Sure! An example is: What is $47 - 29$? Students can think of it as $47 - 20 - 9$, which is easier to calculate.

Why is it important for 3rd graders to learn mental math for subtraction?

Learning mental math helps 3rd graders build confidence in their math abilities, fosters independence, and prepares them for more complex math concepts in the future.

What role do games play in teaching mental math subtraction?

Games make learning fun and interactive, allowing students to practice subtraction in a relaxed environment, which can enhance retention and understanding.

How can parents support their 3rd graders in mastering mental subtraction?

Parents can support their children by encouraging daily practice, engaging in math-related activities, and asking subtraction questions during everyday situations.

What are some common mistakes students make when using mental math for subtraction?

Common mistakes include forgetting to borrow when needed, miscalculating due to skipping steps, or not checking their work after calculating.

How can teachers assess a student's ability in mental math subtraction?

Teachers can assess students through quick quizzes, observation during class activities, and group discussions to gauge their understanding and speed in mental subtraction.

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Master the art of using mental math to subtract with our engaging guide for 3rd graders. Boost their confidence and skills today! Discover how now!

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