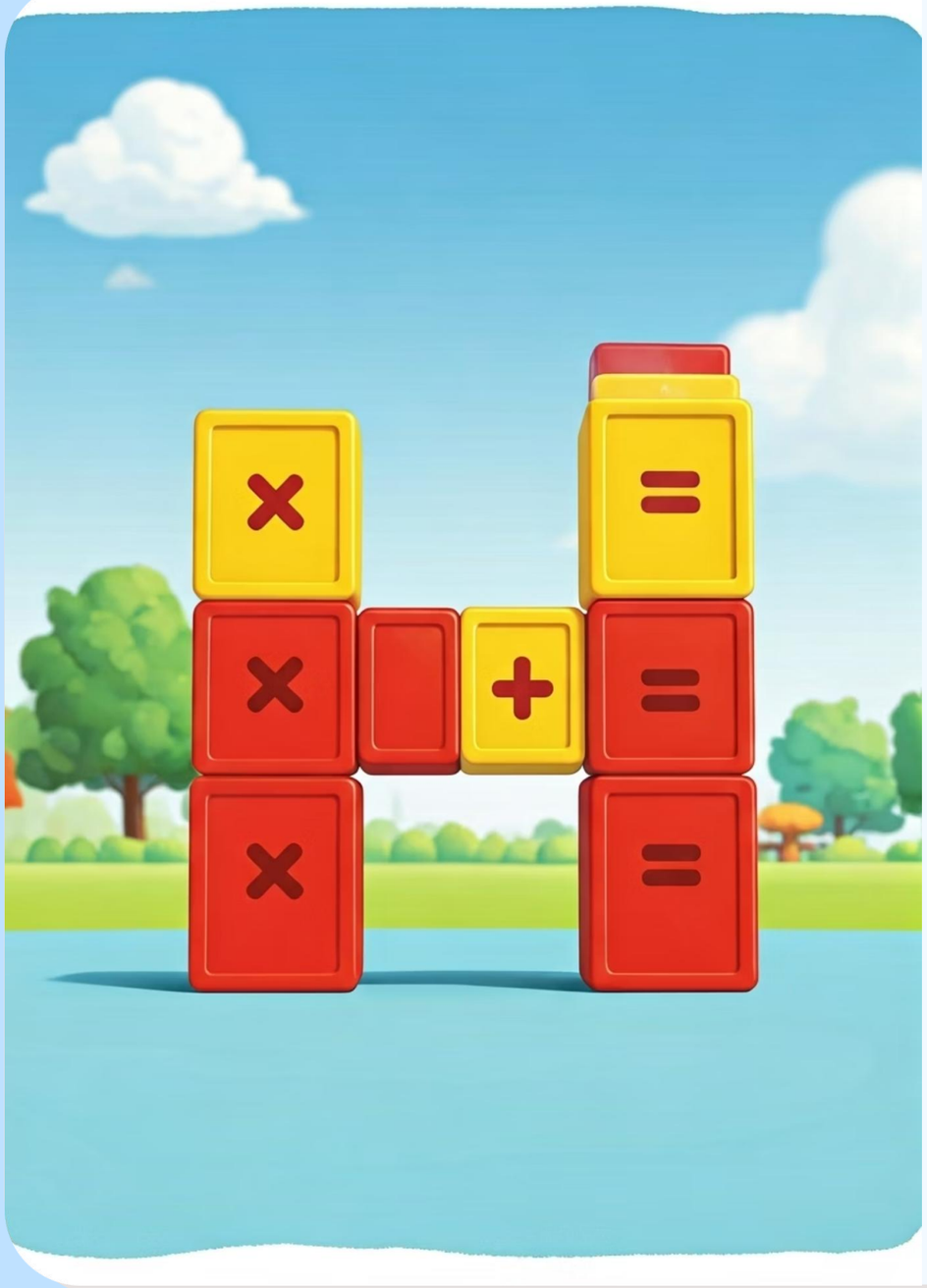
Unlocking the Puzzle: Key Components of Addition and Subtraction

Welcome to our session on mastering basic math operations. We will explore the building blocks of addition and subtraction. Identifying these key parts makes problem-solving much easier. Prepare for an interactive journey to boost your math fluency!

T **by Tony BM**



Addition: The Sum's Secret Ingredients

Addends

These are the numbers we combine, like 3 and 3 and 5 in 3 + 5.

Sum

The total you get when you add numbers, so 8 in 3 + 5 = 8. = 8.

Think of it as putting "parts to whole." For example, 2 apples + 3 apples = 5 apples = 5 apples. Here, 2 and 3 are addends, and 5 is the sum.

Subtraction: Finding the Difference

Minuend

The starting number from which we subtract, subtract, like 10 in 10 - 4.

Subtrahend

The number being taken away, like 4 in 10 - 4.

Difference

The final result after subtracting, which is 6 in 10 - 4 = 6.

Consider "8 cookies - 3 cookies = 5 cookies." Here, 8 is the minuend, 3 is the subtrahend, and 5 is the difference.

Interactive Question: Identify the Components (Addition)

Let's practice! Sarah had 7 balloons. Her friend gave her 4 more. How many many balloons does Sarah have now?

Question 1

What are the addends?

Answer: 7 and 4.

Question 2

What is the sum?

Answer: 11.

Remember, words like "gave her more" are strong clues for addition!

Interactive Question: Identify Identify the Components (Subtraction)

Time for another challenge! There were 15 birds on a branch. 6 birds flew away. flew away. How many birds are left?

Question 1

What is the minuend?

Answer: 15.

Question 2

What is the subtrahend?

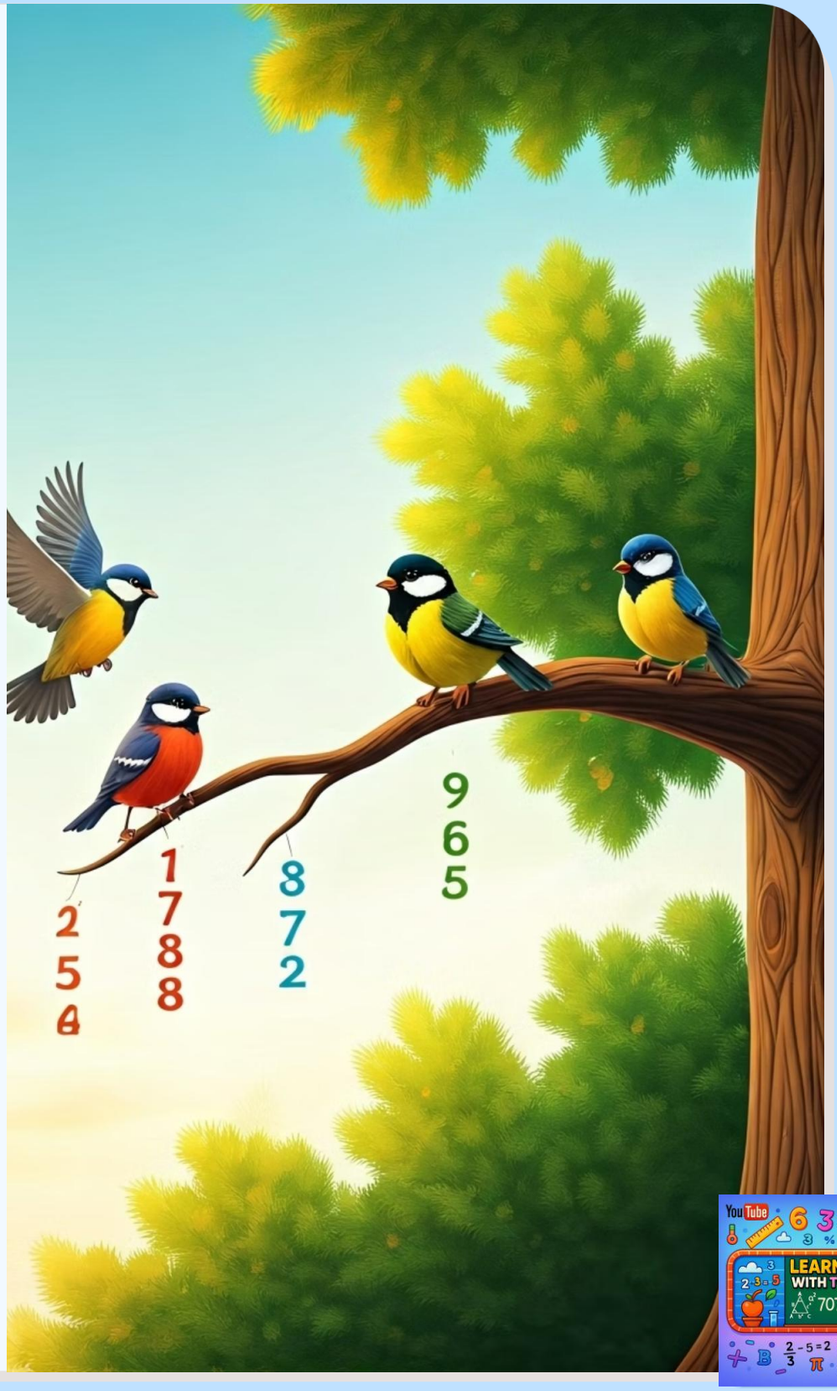
Answer: 6.

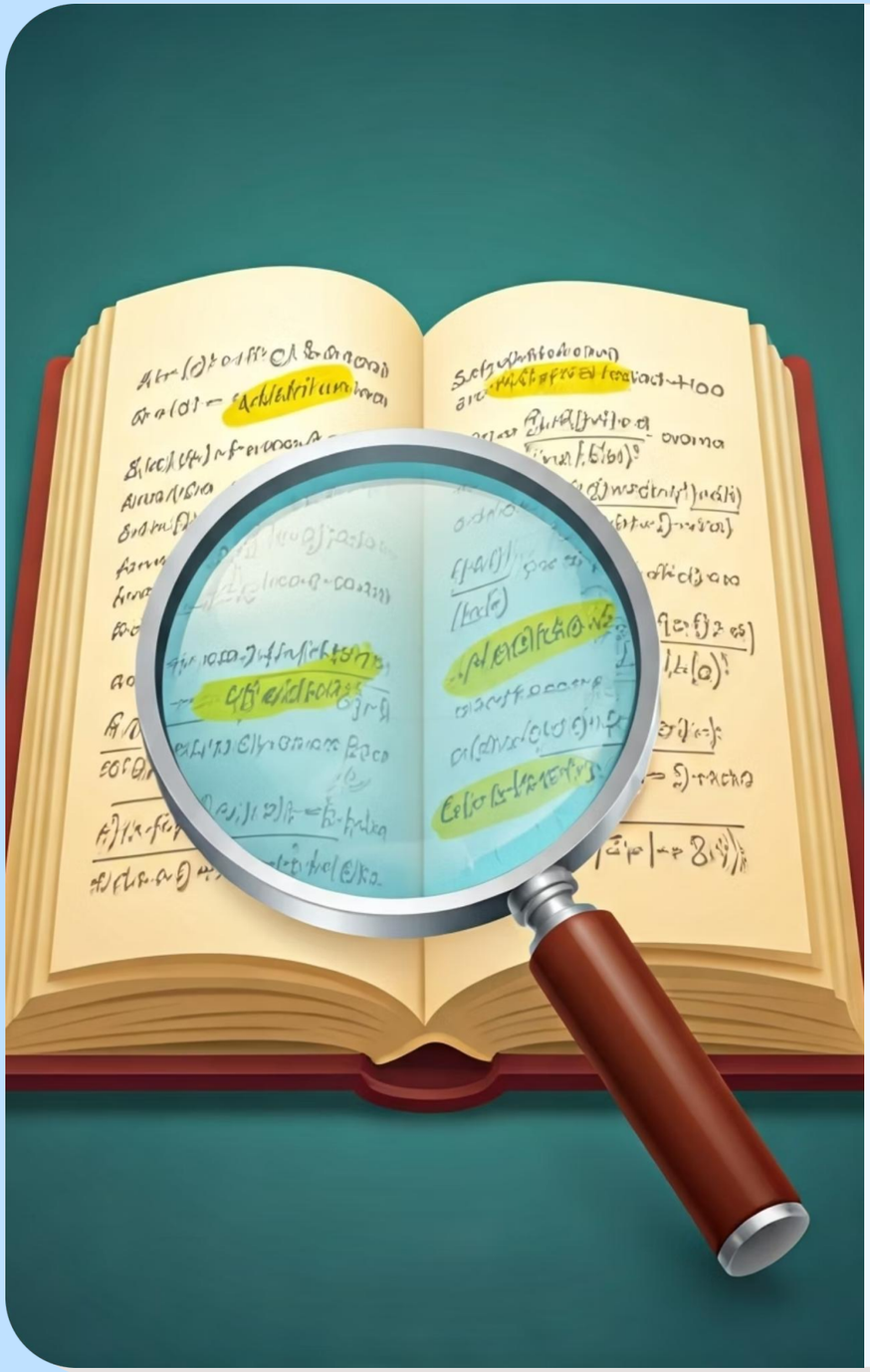
Question 3

What is the difference?

Answer: 9.

Phrases like "flew away" or "are left" often indicate subtraction.





Strategy: Decoding Addition Word Problems

Step 1: Identify Knowns

What numbers are provided in the problem?

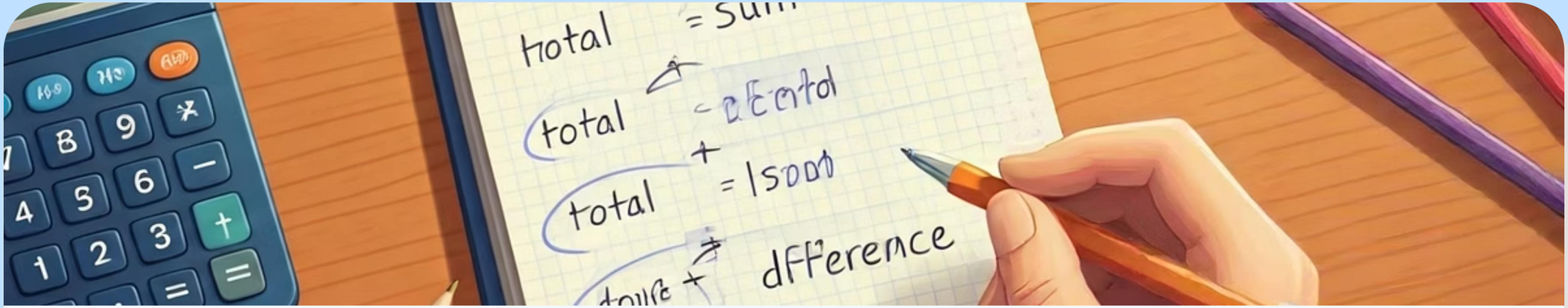
Step 2: Find Keywords

Look for terms like "total," "altogether," "in all," or "combined."

Step 3: Determine the Unknown

What is the problem asking you to find? This is usually the sum.

Example: "John has 3 apples, Mary has 5 apples. How many apples do they have **altogether**?" Addends: 3, 5. Sum: ?



Strategy: Decoding Subtraction Word Problems

Step 1: Identify Starting Quantity

This will be your minuend.

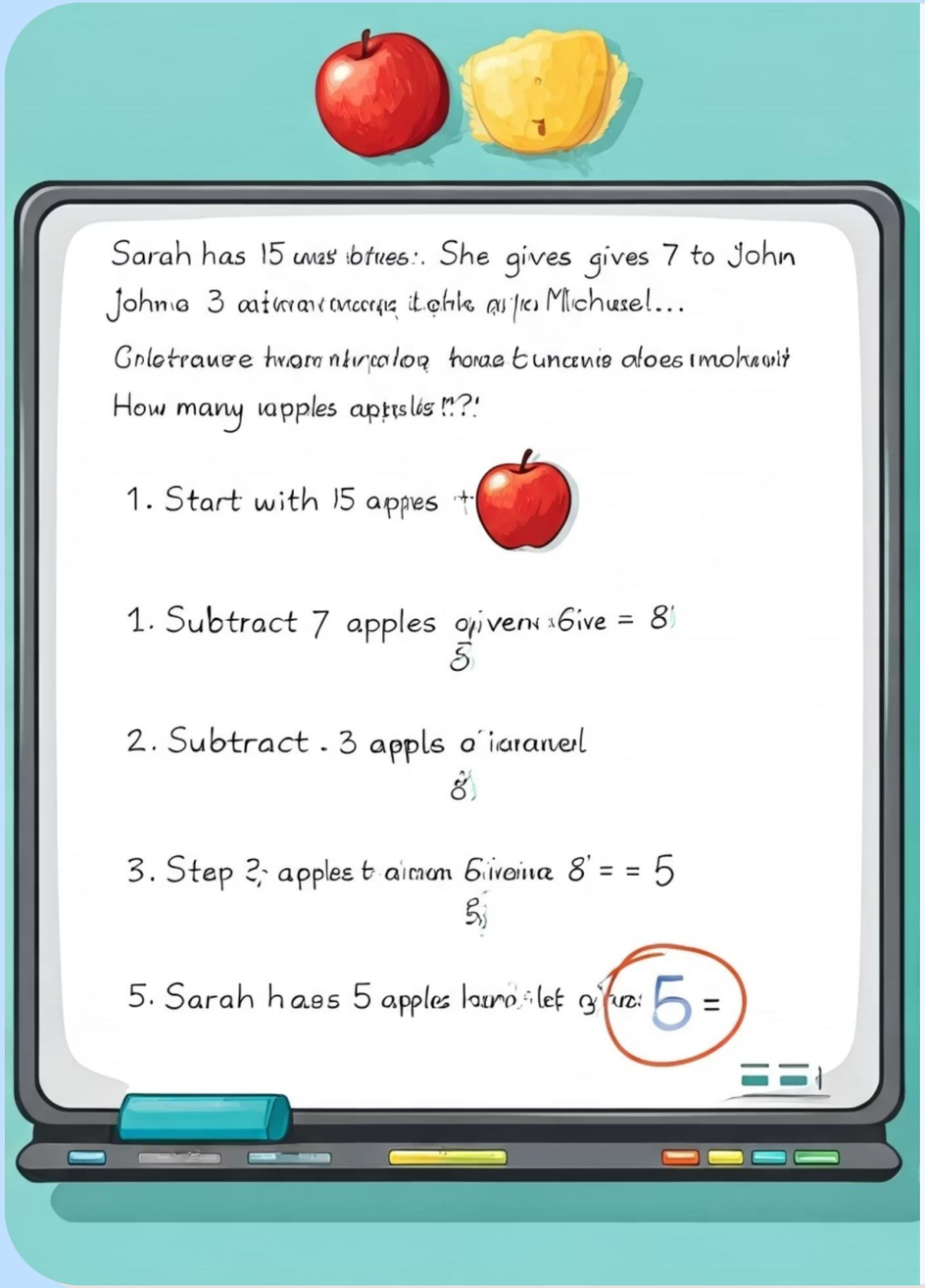
Step 2: Find Keywords

Search for words like "left," "remaining," "fewer," "take away," or "difference."

Step 3: Determine the Unknown

The question is asking for the difference.

Example: "Sarah had 12 candies. She **ate** 7. How many are **left**?" Minuend: 12. Subtrahend: 7. Difference: ?



Interactive Practice: Break Down the Problem

Let's tackle a multi-step problem: A baker made 24 cupcakes. He sold 18. Later, he 18. Later, he made 10 more. How many cupcakes does he have now?

1

Step 1: Subtraction

24 (minuend) - 18 (subtrahend) = 6 (difference).

2

Step 2: Addition

6 (addend) + 10 (addend) = 16 (sum).

This problem demonstrates how understanding components helps manage intermediate results. Both operations are involved.

The Power of Understanding
Understanding Components

Increased Fluency

Recognize problem types quickly, calculate 30% faster.

Enhanced Problem Solving

Break down complex problems into manageable parts.

Greater Confidence

Reduces anxiety, builds a strong math foundation.

Foundation for Algebra

Variables often represent unknown components, setting future success.

Conclusion: Master the Math Puzzle

You've learned to identify addends, sum, minuend, subtrahend, and difference. Use keywords and context to effectively break down word problems. Consistent practice builds both speed and confidence. Your journey towards math fluency just got significantly clearer!

Make sure to like and subscribe for more videos :)

Social media:

Youtube Facebook