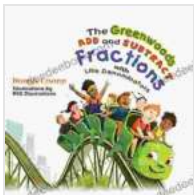


Greenwood's Guide to Adding and Subtracting Fractions with Like Denominators

Fractions are a fundamental part of mathematics and are used in various real-world applications. Understanding how to add and subtract fractions with like denominators is essential for students to progress in their mathematical journey. This article will provide a comprehensive explanation of the concept, step-by-step instructions, and plenty of practice problems for students to master this skill.

The denominator of a fraction represents the number of equal parts into which a whole has been divided. When two fractions have the same denominator, they are said to have like denominators.

For example, in the fractions $1/4$ and $2/4$, the denominator 4 indicates that the whole has been divided into four equal parts.



The Greenwoods Add and Subtract Fractions with Like Denominators

★★★★★ 5 out of 5

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To add fractions with like denominators, simply add the numerators (the numbers on top) and keep the denominator (the number on the bottom) the same.

Step 1: Add the Numerators

Add the numerators of the fractions. For example:

$$1/4 + 2/4 = (1 + 2)/4$$

Step 2: Keep the Denominator

The denominator remains the same.

$$(1 + 2)/4 = 3/4$$

Example:

Add the fractions $1/5$ and $2/5$:

$$1/5 + 2/5 = (1 + 2)/5 = 3/5$$

Subtracting fractions with like denominators follows a similar process to addition. Simply subtract the numerators and keep the denominator the same.

Step 1: Subtract the Numerators

Subtract the numerator of the second fraction from the numerator of the first fraction. For example:

$$3/5 - 1/5 = (3 - 1)/5$$

Step 2: Keep the Denominator

The denominator remains the same.

$$(3 - 1)/5 = 2/5$$

Example:

Subtract the fractions $2/7$ from $4/7$:

$$4/7 - 2/7 = (4 - 2)/7 = 2/7$$

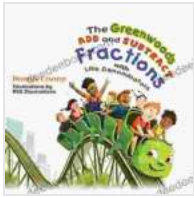
Addition:

1. Add the fractions $1/3$ and $2/3$.
2. Find the sum of $4/5$ and $1/5$.
3. Add the fractions $3/8$, $1/8$, and $2/8$.

Subtraction:

1. Subtract the fractions $5/6$ from $2/6$.
2. Find the difference between $4/9$ and $1/9$.
3. Subtract the fractions $3/10$ from $7/10$.

Adding and subtracting fractions with like denominators is a fundamental skill in mathematics. By understanding the concept of like denominators and following the step-by-step instructions outlined in this article, students can confidently solve these types of problems. Regular practice and a strong understanding of this skill will pave the way for success in more advanced mathematical concepts.



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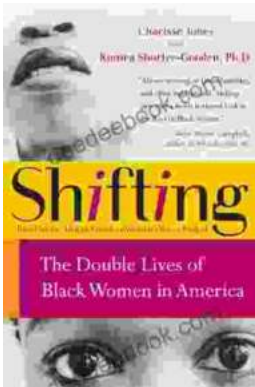
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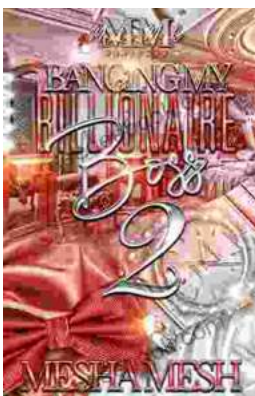
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