



PLANIT
TEACHERS

Mastering Fraction Addition: A Comprehensive Guide for 9-Year-Olds

Student Name: _____

Class: _____

Due Date: _____

Introduction to Fractions

Welcome to the world of fractions! In this worksheet, we will explore the concept of adding fractions with like denominators. You will learn how to add fractions, understand the concept of equivalent fractions, and apply this knowledge to solve real-world problems.

A fraction is a way to show part of a whole. It consists of a numerator (the top number) and a denominator (the bottom number). For example, in the fraction $\frac{1}{4}$, the numerator is 1 and the denominator is 4.

Adding Fractions with Like Denominators

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

Let's look at some examples:

1. $\frac{1}{4} + \frac{1}{4} = ?$

2. $\frac{2}{6} + \frac{1}{6} = ?$

Practice Time!

Now it's your turn to practice adding fractions with like denominators. Complete the following exercises:

1. $\frac{1}{8} + \frac{1}{8} = ?$

2. $\frac{2}{4} + \frac{1}{4} = ?$

3. $\frac{3}{6} + \frac{2}{6} = ?$

Word Problems

Fractions are used in real-life scenarios, such as measuring ingredients for a recipe or dividing a pizza among friends. Let's practice solving word problems involving fraction addition.

Example: Tom has $\frac{1}{4}$ of a bag of apples and his friend gives him $\frac{1}{4}$ more. What fraction of the bag does Tom have now?

To solve this problem, we add the fractions: $\frac{1}{4} + \frac{1}{4} = \frac{2}{4}$.

1. Sarah has $\frac{1}{6}$ of a pizza and her friend gives her $\frac{1}{6}$ more. What fraction of the pizza does Sarah have now?

2. A recipe calls for $\frac{1}{4}$ cup of sugar and $\frac{1}{4}$ cup of honey. What is the total amount of sugar and honey needed?

Equivalent Fractions

Equivalent fractions are fractions that have the same value but different numerators and denominators. For example, $\frac{1}{2}$ and $\frac{2}{4}$ are equivalent fractions.

Let's find the equivalent fraction of $\frac{1}{2}$ with a denominator of 4.

To find the equivalent fraction, we multiply the numerator and denominator by 2: $1 \times 2 / 2 \times 2 = \frac{2}{4}$.

Additional Practice

For more practice, try the following exercises:

1. $\frac{2}{8} + \frac{1}{8} = ?$

2. $\frac{3}{4} + \frac{1}{4} = ?$

3. $\frac{1}{6} + \frac{2}{6} = ?$

Conclusion

Congratulations! You have completed the worksheet on adding fractions with like denominators.

Remember to always add the numerators and keep the denominator the same. Practice makes perfect, so keep practicing and soon you will become a master of fraction addition!

Answers

Here are the answers to the exercises:

1. $\frac{1}{8} + \frac{1}{8} = \frac{2}{8}$

2. $\frac{2}{4} + \frac{1}{4} = \frac{3}{4}$

3. $\frac{3}{6} + \frac{2}{6} = \frac{5}{6}$

4. $\frac{2}{8} + \frac{1}{8} = \frac{3}{8}$

5. $\frac{3}{4} + \frac{1}{4} = \frac{4}{4}$ or 1

6. $\frac{1}{6} + \frac{2}{6} = \frac{3}{6}$ or $\frac{1}{2}$