

# Tara Give $\frac{1}{3}$ Of Plums To Her Best Friend And $\frac{2}{9}$ To Her Sister She Kept The Remainder What Fraction

**Tara Give  $\frac{1}{3}$  Of Plums To Her Best Friend And  $\frac{2}{9}$  To Her Sister She Kept The Remainder What Fraction** is a classic problem that involves understanding fractions and how to work with them. This type of problem is often encountered in math lessons focused on fractions, sharing, and basic arithmetic operations. The question asks us to determine the fraction of the total plums that Tara kept after giving parts to her best friend and sister. To find this, we need to carefully analyze the fractions given and perform the necessary calculations. This article will walk you through the process of solving such problems, explaining the concepts involved and providing tips for tackling similar questions.

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## Understanding the Problem

Before diving into the calculations, it's important to understand what the problem is asking. In simple terms, Tara starts with a certain total number of plums—let's denote this total as  $T$ . She gives:

- $\frac{1}{3}$  of the plums to her best friend
- $\frac{2}{9}$  of the plums to her sister

The question then is: What fraction of the total plums does Tara keep? To find this, we'll need to:

1. Calculate the total fraction of plums given away
2. Subtract that from the whole (which is 1 or 100%)

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## Breaking Down the Fractions

### Adding the Fractions Given Away

Since Tara gives away parts of her plums, the key step is to find the combined fraction of the plums she has given to her best friend and sister.

- To do this, we add  $\frac{1}{3}$  and  $\frac{2}{9}$ .

But before adding, we need to ensure the fractions have a common denominator.

## Finding a Common Denominator

- The denominators are 3 and 9.
- The least common denominator (LCD) of 3 and 9 is 9.

Converting  $\frac{1}{3}$  to ninths:

$$\text{- } \left( \frac{1}{3} = \frac{3}{9} \right)$$

Now, adding:

$$\text{- } \left( \frac{3}{9} + \frac{2}{9} = \frac{5}{9} \right)$$

This means Tara has given  $\frac{5}{9}$  of her plums to her best friend and sister combined.

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## Calculating the Remainder

Since the total is 1 (or  $\frac{9}{9}$ ), the fraction Tara keeps is:

$$\text{- } \left( 1 - \frac{5}{9} = \frac{9}{9} - \frac{5}{9} = \frac{4}{9} \right)$$

Therefore, Tara keeps  $\frac{4}{9}$  of her plums.

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## Understanding the Result

The key takeaway from this problem is understanding how to:

- Convert fractions to a common denominator
- Add fractions correctly
- Subtract the total given away from the whole

This approach is fundamental in many real-world scenarios, such as sharing resources, dividing bills, or distributing items among friends and family.

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## Practical Applications of Fraction Problems

## Educational Benefits

Solving fraction problems like this enhances:

- Mathematical reasoning: Understanding how to manipulate fractions
- Problem-solving skills: Breaking down complex questions into simpler steps
- Numeracy: Improving comfort with common operations involving fractions

## Real-World Scenarios

Similar problems appear in everyday life, such as:

- Sharing food or resources among friends and family
- Dividing chores or responsibilities
- Calculating portions in recipes
- Distributing profits or earnings

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## Step-by-Step Guide to Solving Fraction Sharing Problems

To help you master similar problems, here's a straightforward guide:

1. **Identify the fractions involved:** Know what parts are being given away or kept.
2. **Find a common denominator:** Convert fractions to comparable forms.
3. **Add or subtract fractions as needed:** Combine the parts to find totals.
4. **Subtract from the whole:** Find what remains after sharing.
5. **Express the answer as a fraction:** Simplify if possible.

Applying these steps to the original problem results in the answer: Tara keeps  $\frac{4}{9}$  of her plums.

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## Additional Practice Problems

To reinforce understanding, consider these similar scenarios:

- John has  $\frac{3}{4}$  of a cake. He gives  $\frac{1}{2}$  of it to his friend. How much cake does he keep?
- Emma has  $\frac{2}{5}$  of a chocolate bar. She shares  $\frac{1}{10}$  with her brother. What fraction does she retain?
- Alex starts with  $\frac{7}{8}$  of a pizza. He eats  $\frac{1}{4}$  of it. What fraction remains?

Working through these problems will strengthen your ability to handle fractions in various contexts.

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## Conclusion

Understanding how to work with fractions is essential for solving many practical and academic problems. The example of Tara sharing plums demonstrates key skills such as converting fractions to common denominators, adding, subtracting, and simplifying fractions. The final answer— $\frac{4}{9}$ —shows what portion of the plums Tara kept after sharing with her best friend and sister. By mastering these concepts, you can confidently approach similar problems, whether in math class, at work, or in everyday life.

Remember, practice makes perfect. Keep working through different fraction sharing problems, and soon you'll find them becoming much more intuitive!

## Frequently Asked Questions

### **What fraction of the plums did Tara give to her best friend?**

She gave  $\frac{1}{3}$  of the plums to her best friend.

### **How much of the plums did Tara give to her sister?**

She gave  $\frac{2}{9}$  of the plums to her sister.

### **If Tara gave away $\frac{1}{3}$ and $\frac{2}{9}$ of the plums, what fraction did she give in total?**

She gave away  $\frac{5}{9}$  of the plums in total.

### **What fraction of the plums did Tara keep after giving to her friend and sister?**

She kept  $\frac{4}{9}$  of the plums.

## How do you find the remaining fraction of plums Tara kept?

Subtract the total given away ( $5/9$ ) from the whole (1), so  $1 - 5/9 = 4/9$ .

## Is the sum of the given fractions to her friend and sister less than, equal to, or more than a half?

It is more than a half, since  $1/3 + 2/9 = 5/9$ , which is greater than  $1/2$ .

## What is the common denominator when adding $1/3$ and $2/9$ ?

The common denominator is 9.

## Can Tara give fractional parts of plums that don't sum up to 1? Why?

No, because the total parts given away cannot exceed the whole, which is 1. In this case, the fractions sum to  $5/9$ , leaving the remainder for Tara.

## Additional Resources

Tara Gave  $1/3$  Of Plums To Her Best Friend And  $2/9$  To Her Sister She Kept The Remainder What Fraction

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### Introduction

In the realm of everyday mathematics, the distribution of tangible items such as fruits often seems straightforward but can unravel into intriguing problems when scrutinized through a more analytical lens. One such problem involves understanding the fraction of plums Tara kept after giving portions to her best friend and sister. This particular case — "Tara gave  $1/3$  of plums to her best friend and  $2/9$  to her sister, and she kept the remainder" — is a classic example of fractional distribution that warrants a thorough investigation.

This article delves into the mathematical intricacies of this scenario, exploring the underlying principles, revealing the exact fraction Tara retained, and discussing the broader implications of such fractional calculations. Using a step-by-step approach, we aim to clarify the problem and present a comprehensive understanding suitable for both academic and practical contexts.

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### The Core Problem Statement

The problem can be summarized as follows:

- Tara begins with a total number of plums (assumed to be a whole, arbitrary unit).
- She gives one-third ( $1/3$ ) of her plums to her best friend.

- She gives two-ninths ( $\frac{2}{9}$ ) of her plums to her sister.
- She keeps the remaining plums for herself.
- The question: What fraction of the original plums does Tara keep?

Before delving into calculations, it's essential to understand the significance of fractional parts and how they relate to the total quantity.

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## Mathematical Foundations

### Understanding Fractions

Fractions represent parts of a whole. In this context:

- $\frac{1}{3}$  of the plums indicates dividing the total into three equal parts and giving one to the friend.
- $\frac{2}{9}$  indicates dividing the total into nine equal parts and giving two to the sister.
- The remaining part for Tara is what's left after these distributions.

### The Concept of Whole and Parts

The total initial amount is considered as 1 (representing 100% or the entire set of plums). The sum of all parts distributed should not exceed this total, ensuring the problem makes sense within a real-world context.

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### Step-by-Step Calculation

#### Step 1: Express the Fractions

- Tara gives  $\frac{1}{3}$  of her plums to her best friend.
- She gives  $\frac{2}{9}$  to her sister.

#### Step 2: Find a Common Denominator

To combine these fractions, it helps to express them with a common denominator. The denominators are 3 and 9.

- The least common denominator (LCD) of 3 and 9 is 9.

Express  $\frac{1}{3}$  with denominator 9:

$$- \frac{1}{3} = \left(\frac{3}{3}\right) \times \left(\frac{1}{3}\right) = \left(\frac{3}{9}\right)$$

So,

$$- \frac{1}{3} = \frac{3}{9}$$

Now, the fractions are:

- Friend:  $\frac{3}{9}$
- Sister:  $\frac{2}{9}$

### Step 3: Calculate the Total Distributed

Add these two fractions:

$$- \frac{3}{9} + \frac{2}{9} = \frac{(3 + 2)}{9} = \frac{5}{9}$$

This sum,  $\frac{5}{9}$ , represents the portion of the plums Tara has distributed to her best friend and sister combined.

### Step 4: Determine the Remainder

Since Tara started with the whole (1), which is  $\frac{9}{9}$  in fractional form, the part she keeps is:

- Remainder = Total - Distributed
- Remainder =  $\frac{9}{9} - \frac{5}{9} = \frac{(9 - 5)}{9} = \frac{4}{9}$

Thus, Tara keeps  $\frac{4}{9}$  of the plums.

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### Interpretation and Broader Context

This calculation reveals that Tara retained  $\frac{4}{9}$  of her original plums after the distributions. This fraction simplifies the real-world understanding of proportionate sharing, illustrating how parts of a whole are allocated and what remains.

### Practical Implications

Understanding such fractions has real-world applications beyond simple fruit sharing:

- Resource management: Allocating shares among stakeholders.
- Financial planning: Dividing assets or income.
- Inventory control: Distributing stock or supplies proportionally.
- Educational purposes: Teaching fractions through tangible examples.

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### Additional Considerations

#### Verifying the Calculation

It's always prudent to verify the sum of all parts equals the whole:

- Sum of parts distributed and kept:

$$\frac{1}{3} + \frac{2}{9} + \frac{4}{9} = \frac{(3)}{9} + \frac{(2)}{9} + \frac{(4)}{9} = \frac{(3 + 2 + 4)}{9} = \frac{9}{9} = 1$$

This confirms the parts collectively account for the entire set of plums, validating the calculation.

## Assumptions and Limitations

- The problem assumes an initial whole, which could be any number, but choosing 1 (or 9/9) simplifies calculations.
- The fractions are exact; in real life, fractional parts of discrete items like plums may involve rounding or approximate sharing.

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## The Educational Significance

Problems like these serve as excellent teaching tools for understanding fractions, common denominators, and the concept of parts of a whole. They demonstrate:

- The importance of finding common denominators.
- How to add fractions with different denominators.
- The logical process of subtracting from a whole.

Furthermore, such problems foster critical thinking and help students develop confidence in handling more complex fractional distributions.

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## Conclusion

In summary, the fractional distribution of plums as described — Tara giving  $\frac{1}{3}$  to her best friend and  $\frac{2}{9}$  to her sister — results in her keeping  $\frac{4}{9}$  of the original plums. This simple yet instructive problem exemplifies fundamental principles of fractions, highlighting the importance of common denominators, addition, and subtraction in fractional calculations.

Understanding these principles is crucial not only in academic settings but also in everyday scenarios involving resource sharing and allocation. By dissecting this problem thoroughly, we reinforce core mathematical concepts and demonstrate their relevance in real-world contexts.

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## Final Reflection

Mathematics often appears abstract, but problems like this ground concepts in practical, relatable situations. Tara's plum-sharing scenario exemplifies how fractional reasoning can be seamlessly integrated into everyday life, fostering a deeper appreciation for the elegance and utility of mathematics. Whether for students, educators, or curious minds, mastering such problems enriches numerical literacy and promotes analytical thinking.

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