PEARSON MULTIPLYING TWO FRACTIONS Textbook

Pearson multiplying two fractions is a fundamental concept in mathematics that plays a crucial role in understanding how to work with fractions effectively. Whether you are a student learning fraction multiplication for the first time or a teacher preparing lesson plans, mastering this topic is essential. In this comprehensive guide, we will explore the process of multiplying two fractions step by step, highlight common mistakes to avoid, provide helpful tips, and include practice problems to reinforce your understanding.

Understanding the Basics of Fraction Multiplication

What is a Fraction?

A fraction represents a part of a whole and consists of two parts:

- **Numerator**: The top number indicating how many parts are taken.
- **Denominator**: The bottom number indicating how many parts the whole is divided into.

For example, in the fraction ¾, 3 is the numerator, and 4 is the denominator.

Why Multiply Fractions?

Multiplying fractions is useful in various real-world scenarios, such as:

- Calculating portions in recipes
- Determining probabilities
- Solving algebraic expressions involving fractions

Key Concepts in Fraction Multiplication

Before diving into the process, understand these important points:

- Multiplying fractions involves multiplying the numerators together and the denominators together.

- The result may need to be simplified to its lowest terms.
- Cross-cancellation can simplify calculations and reduce the need for large numbers.

Step-by-Step Guide to Multiplying Two Fractions

Step 1: Write Down the Fractions

Identify the two fractions you want to multiply. For example:

- $\frac{a}{b}$
- $\frac{c}{d}$

Step 2: Simplify Before Multiplying (Optional but Recommended)

Look for opportunities to cancel common factors across numerators and denominators before multiplying. This is called cross-cancellation and simplifies calculations.

Step 3: Multiply Numerators and Denominators

Multiply the numerators together to get the new numerator:

$$
\text{Numerator} = a \times c
$$

Multiply the denominators together to get the new denominator:

$$
\text{Denominator} = b \times d
$$

The resulting fraction will be:

$$
\frac{a \times c}{b \times d}
$$

\]

Step 4: Simplify the Result

Reduce the resulting fraction to its lowest terms by dividing numerator and denominator by their greatest common divisor (GCD).

Example 1: Multiply $\frac{2}{3}$ and $\frac{4}{5}$

- Multiply the numerators: 2 × 4 = 8
- Multiply the denominators: 3 × 5 = 15
- Result: $\frac{8}{15}$
- Since 8 and 15 have no common factors other than 1, the fraction is already in its simplest form.

Example 2: Multiply $\frac{3}{4}$ and $\frac{2}{9}$

- Cross-cancel if possible:
- 3 and 9 share a common factor of 3: 3 ÷ 3 = 1, 9 ÷ 3 = 3
- Replace 3 with 1 and 9 with 3
- Multiply simplified numerators: 1 × 2 = 2
- Multiply simplified denominators: 4 × 3 = 12
- Result: $\frac{2}{12}$
- Simplify: Divide numerator and denominator by 2 ? $\frac{1}{6}$

Tips for Efficient Fraction Multiplication

Use Cross-Cancellation

Cross-cancellation reduces the size of numbers and simplifies calculations:

- Identify common factors between any numerator and denominator across the two fractions.
- Divide these by their GCD before multiplying.

This step makes multiplication easier and prevents dealing with large numbers.

Simplify After Multiplying

Always check if the resulting fraction can be simplified further by finding the GCD of numerator and

denominator.

Remember the Zero Rule

Multiplying any fraction by zero results in zero:

$$
\frac{a}{b} \times 0 = 0
$$

Make sure your calculations account for this.

Practice Mental Math Skills

With experience, you'll be able to quickly identify common factors and perform cross-cancellation mentally, speeding up the process.

Common Mistakes to Avoid When Multiplying Fractions

1. Forgetting to Simplify First

Always look for opportunities to cancel common factors before multiplying to simplify calculations.

2. Multiplying Without Cross-Cancellation

Skipping cross-cancellation can lead to working with unnecessarily large numbers, increasing the chance of errors.

3. Not Simplifying the Final Answer

Always check if your final fraction can be reduced to its simplest form.

4. Mixing Up Numerators and Denominators

Remember: only multiply numerators together and denominators together.

5. Ignoring the Zero Rule

Multiplying by zero yields zero; ensure your calculations reflect this when appropriate.

Practice Problems to Master Pearson Multiplying Two Fractions

Try solving these problems to reinforce your understanding:

- Multiply $\frac{5}{8}$ and $\frac{2}{3}$.
- Calculate $\frac{7}{10} \times \frac{5}{4}$.
- Find the product of $\frac{3}{5}$ and $\frac{10}{12}$, simplifying fully.
- Multiply $\frac{9}{14}$ by $\frac{14}{27}$ using cross-cancellation.
- What is $\frac{0}{7} \times \frac{3}{4}$?

Real-World Applications of Fraction Multiplication

Understanding how to multiply fractions extends beyond textbooks:

- **Cooking:** Adjusting ingredient quantities by fractions, e.g., halving or doubling recipes.
- **Construction:** Calculating fractional measurements for precise work.
- **Finance:** Computing proportional investments or interest rates.
- **Education:** Teaching probability, ratios, and proportions.

Conclusion

Mastering **Pearson multiplying two fractions** is a vital skill that enhances your overall mathematical proficiency. Remember to always look for opportunities to simplify through cross-cancellation, multiply numerators together and denominators together, and reduce the final answer to its simplest form. Regular practice with diverse problems will build confidence and speed, making fraction multiplication a seamless part of your math toolkit. Keep exploring and practicing, and you'll become proficient in applying this fundamental concept across various contexts.

Pearson multiplying two fractions is a fundamental skill in mathematics, often encountered in early education and essential for understanding more complex concepts in algebra and beyond. Mastering this operation not only enhances your numerical fluency but also builds a solid foundation for working with ratios, proportions, and algebraic expressions. In this comprehensive guide, we will explore the process of multiplying two fractions, explain the steps involved, provide practical examples, and share tips to ensure accuracy and confidence in your calculations.

Understanding the Concept of Multiplying Fractions

Before diving into the step-by-step process, it?s important to understand what multiplying fractions entails. When multiplying two fractions, you're essentially finding a part of a part, which is a common

scenario in dividing quantities or scaling measurements.

Why Multiply Fractions?

Multiplying fractions is used in various real-life contexts, such as:

- Calculating portions of recipes
- Determining areas in geometry
- Scaling measurements
- Solving algebraic expressions involving fractions

The Basics of Fraction Multiplication

The Structure of a Fraction

A fraction consists of two parts:

- Numerator: The top number, representing the number of parts you have.
- Denominator: The bottom number, representing the total number of equal parts the whole is divided into.

For example, in the fraction a/b, a is the numerator, and b is the denominator.

The Multiplication Process

Multiplying two fractions involves:

- Multiplying the numerators together to get the new numerator.
- Multiplying the denominators together to get the new denominator.

Formula:

If you have two fractions, a/b and c/d, then:

$(a/b) \times (c/d) = (a \times c) / (b \times d)$

This straightforward method makes multiplying fractions simple once you understand the process.

Step-by-Step Guide to Multiplying Two Fractions

Step 1: Identify the Fractions

Suppose you want to multiply the fractions 3/4 and 2/5.

Step 2: Multiply the Numerators

Multiply the top numbers:

3 × 2 = 6

Step 3: Multiply the Denominators

Multiply the bottom numbers:

4 × 5 = 20

Step 4: Write the Resulting Fraction

Combine the results:

(3/4) × (2/5) = 6/20

Step 5: Simplify the Result

Check if the resulting fraction can be simplified:

- Both numerator and denominator are divisible by 2.
- Divide numerator and denominator by 2:

6 ÷ 2 = 3

20 ÷ 2 = 10

- The simplified fraction is 3/10.

Final answer: (3/4) × (2/5) = 3/10

Tips for Multiplying Fractions Effectively

- Always look for cross-simplification: Before multiplying, check if any numerator and denominator can be simplified across the fractions to reduce the size of numbers, making calculations easier.
- Use prime factorization: Breaking numbers into prime factors can help identify common factors for simplification.
- Practice simplifying after multiplication: Always verify if the resulting fraction can be reduced to its simplest form.
- Convert mixed numbers: If working with mixed numbers, convert them into improper fractions before multiplying.

Handling Mixed Numbers and Complex Fractions

Multiplying Mixed Numbers

Suppose you need to multiply 2 1/2 and 3 2/3:

Step 1: Convert mixed numbers to improper fractions.

- 2 1/2 = (2 × 2 + 1)/2 = (4 + 1)/2 = 5/2
- 3 2/3 = (3 × 3 + 2)/3 = (9 + 2)/3 = 11/3

Step 2: Multiply the improper fractions.

- Numerator: 5 × 11 = 55
- Denominator: 2 × 3 = 6

Step 3: Write the product as an improper fraction: 55/6

Step 4: Convert back to a mixed number if desired.

- 55 ÷ 6 = 9 with a remainder of 1.
- So, 55/6 = 9 1/6

Common Mistakes to Avoid When Multiplying Fractions

- Forgetting to simplify: Always check if the fraction can be reduced after multiplying.
- Multiplying across without considering common factors: Cross-simplify before multiplying to make calculations easier.
- Ignoring mixed numbers: Remember to convert mixed numbers to improper fractions first.
- Incorrectly multiplying the numerators and denominators: Stick to the formula (a/b) × (c/d) = (a × c) / (b × d).

Practice Problems for Mastery

- Multiply 7/8 by 3/4 and simplify.
- Find the product of 5/6 and 2/3.
- Convert 1 1/2 and 2 2/3 to improper fractions and multiply.
- Simplify the product of 9/10 and 5/12.

Advanced Tips: Multiplying Fractions in Algebra

In algebra, multiplying fractions often involves variables:

- When multiplying algebraic fractions, multiply across numerator and denominator separately.
- Always factor expressions to identify common factors for simplification before multiplying.
- For example, (x/ y) × (y/ z) = (x × y) / (y × z) simplifies to x / z after canceling y.

Summary: Key Takeaways

- Multiplying two fractions involves multiplying the numerators together and the denominators together.
- Simplify the resulting fraction whenever possible to reduce it to lowest terms.
- Convert mixed numbers to improper fractions before multiplying.
- Cross-simplify when possible to make calculations easier and more efficient.
- Practice with various examples to build confidence and proficiency.

Final Thoughts

Mastering pearson multiplying two fractions is a vital step in developing robust mathematical skills. Whether you're solving everyday problems, tackling homework, or preparing for exams, a clear understanding of the multiplication process ensures accuracy and efficiency. Remember to convert mixed numbers, simplify early and often, and practice regularly to become fluent in this essential operation. With these strategies and tips, you'll confidently navigate any fraction multiplication

challenge that comes your way.

QuestionAnswer How do you multiply two fractions using Pearson methods? To multiply two fractions, multiply the numerators together to get the new numerator, and multiply the denominators together to get the new denominator. Simplify the resulting fraction if possible. What are the steps to multiply fractions according to Pearson curriculum? First, multiply the numerators. Second, multiply the denominators. Third, simplify the resulting fraction if possible. Remember to check for any common factors before simplifying. Can you provide an example of multiplying fractions using Pearson techniques? Sure! For example, multiply 2/3 by 4/5. Multiply numerators: 2 × 4 = 8. Multiply denominators: 3 × 5 = 15. The product is 8/15, which is already simplified. Why is it important to simplify the product of two fractions in Pearson math lessons? Simplifying the product ensures the fraction is in its lowest terms, making it easier to understand and work with in further calculations or real-world applications. Are there any tips for multiplying fractions more efficiently in Pearson math practice? Yes, tips include canceling common factors before multiplying to simplify calculations, and always checking if the resulting fraction can be reduced after multiplication. How does understanding multiplying fractions help in real-world math problems? Multiplying fractions is essential for solving problems involving portions, ratios, rates, and probabilities, making it a fundamental skill in real-world math applications covered in Pearson curricula.

Related keywords: Pearson, multiplying fractions, fraction multiplication, numerator, denominator, simplify fractions, multiplying mixed numbers, common denominators, multiplying across fractions, fraction calculator

Pearson Education Inc Reteaching Multiplying Mixed Numbers

Introduction to Pearson Education Inc Reteaching Multiplying Mixed Numbers

Pearson Education Inc reteaching multiplying mixed numbers is an essential part of mathematics education, especially for students who are developing their understanding of fractions and their applications. Multiplying mixed numbers can often be challenging for learners because it involves several steps, including converting mixed numbers to improper fractions, multiplying numerators and denominators, and simplifying the resulting fraction. Pearson Education Inc provides comprehensive reteaching strategies and resources that help educators and students grasp these concepts more effectively. This article explores the methods, tips, and practice strategies recommended by Pearson Education Inc for reteaching multiplying mixed numbers, ensuring learners build a strong foundation in this critical math skill.

Understanding Mixed Numbers and Their Importance

What Are Mixed Numbers?

Mixed numbers combine a whole number and a proper fraction, such as 2 ¾ or 5 ?. They are used to represent quantities that are greater than one but not whole, making them more intuitive in real-world contexts like measurements, recipes, and distances.

Why Is Multiplying Mixed Numbers Important?

Multiplying mixed numbers is an essential skill that appears in various mathematical applications, including area calculations, scaling recipes, and solving real-life problems involving measurements. Mastery of this skill allows students to handle complex problems with confidence and accuracy.

Pearson Education Inc Reteaching Strategies for Multiplying Mixed Numbers

Step-by-Step Approach to Reteaching

Pearson Education Inc emphasizes a structured approach to reteaching multiplying mixed numbers:

- **Convert Mixed Numbers to Improper Fractions:** This simplifies the multiplication process. For example, convert 2 ¾ to an improper fraction: (2 × 4 + 3) / 4 = 11/4.
- **Multiply the Numerators and Denominators:** Multiply the fractions directly: (Numerator1 × Numerator2) / (Denominator1 × Denominator2).
- **Simplify the Resulting Fraction:** Reduce the fraction to its simplest form by dividing numerator and denominator by their greatest common divisor (GCD).
- **Convert Back to a Mixed Number (if necessary):** If the answer is an improper fraction, convert it into a mixed number for clarity.

Using Visual Models and Manipulatives

Pearson Education Inc advocates for the use of visual aids like fraction bars, area models, and number lines to help students visualize the multiplication process. These tools make abstract concepts tangible and enhance understanding.

Incorporating Real-Life Contexts

Applying problems to real-world situations, such as calculating the area of a garden bed or adjusting recipes, helps students see the relevance of multiplying mixed numbers and encourages

engagement.

Practical Examples and Practice Problems

Example 1: Multiply 3 ½ by 2 ?

- **Convert to Improper Fractions:**

- 3 ½ = (3 × 2 + 1)/2 = 7/2
- 2 ? = (2 × 3 + 1)/3 = 7/3

- **Multiply the Fractions:** (7/2) × (7/3) = (7 × 7)/(2 × 3) = 49/6
- **Simplify or Convert to Mixed Number:** 49/6 = 8 1/6 (since 6 × 8 = 48, remainder 1)

Example 2: Multiply 1 ? by 4 ¼

- **Convert to Improper Fractions:**

- 1 ? = (1 × 8 + 5)/8 = 13/8
- 4 ¼ = (4 × 4 + 1)/4 = 17/4

- **Multiply the Fractions:** (13/8) × (17/4) = (13 × 17)/(8 × 4) = 221/32
- **Simplify or Convert:** 221/32 is an improper fraction. As a mixed number: 6 29/32 (since 32 × 6 = 192, 221 - 192 = 29).

Common Challenges and How Pearson Education Inc Addresses Them

Difficulty Converting Mixed Numbers

Many students struggle with converting mixed numbers to improper fractions. Pearson provides step-by-step tutorials, visual aids, and practice exercises to reinforce this skill.

Difficulty Simplifying Fractions

Simplification requires understanding the GCD. Pearson offers interactive tools and explanations that help students identify the GCD and reduce fractions effectively.

Understanding the Multiplication Process

Some learners find it confusing to multiply across numerators and denominators. Visual models and guided practice help clarify this process.

Converting Back to Mixed Numbers

Converting improper fractions back to mixed numbers can be tricky. Pearson?s reteaching resources include practice problems, tips, and tricks for efficient conversion.

Additional Resources and Tools from Pearson Education Inc

Interactive Digital Tools

Pearson offers online platforms and apps that allow students to practice multiplying mixed numbers with instant feedback, enhancing their mastery through repetition and guided hints.

Step-by-Step Video Tutorials

Visual learners benefit from video explanations demonstrating each step of the process, from conversion to simplification and final answers.

Printable Worksheets and Practice Tests

Hands-on practice is vital. Pearson provides printable worksheets that reinforce skills learned during reteaching sessions, including multiple-choice and open-ended questions.

Teaching Tips for Educators

Use Varied Examples

Incorporate problems that involve real-life contexts and different difficulty levels to cater to diverse learners.

Encourage Group Work

Collaborative learning helps students explain their reasoning and learn from peers.

Assess Understanding Regularly

Use formative assessments to identify areas where students struggle and adjust reteaching strategies accordingly.

Integrate Technology

Leverage Pearson?s digital resources to make lessons interactive and engaging.

Conclusion: Building Confidence in Multiplying Mixed Numbers

Mastering the skill of multiplying mixed numbers is crucial for students? overall mathematical development. Pearson Education Inc?s reteaching resources and strategies provide a comprehensive framework to help learners overcome common challenges and develop a deep understanding of the process. By combining step-by-step instructions, visual aids, practical examples, and engaging practice tools, educators can effectively support their students in becoming confident and proficient in multiplying mixed numbers. The goal is to foster not only procedural fluency but also a conceptual understanding that empowers students to apply their skills in real-world situations and future math topics.

Pearson Education Inc Reteaching Multiplying Mixed Numbers: An In-Depth Analysis

In the landscape of mathematics education, effective teaching strategies and comprehensive resource materials are vital for fostering student understanding. Among the prominent educational publishers, Pearson Education Inc has established itself as a significant contributor to curriculum development, with a wide array of instructional tools designed to enhance student comprehension. One such area of focus is the reteaching of multiplying mixed numbers?a fundamental skill in upper elementary and middle school mathematics. This article embarks on an investigative journey into Pearson's approach to reteaching this concept, examining its pedagogical strategies, resource effectiveness, and how it aligns with current educational standards.

Understanding the Context: Why Reteaching Multiplying Mixed Numbers Matters

Multiplying mixed numbers is a core competency in mathematics that builds upon students? understanding of fractions, whole numbers, and multiplication. Mastery of this skill is crucial for progressing in topics such as ratio, proportion, algebra, and real-world problem-solving.

However, students often encounter difficulties with mixed number multiplication due to misconceptions about converting between mixed numbers and improper fractions, and challenges in applying multiplication rules to fractional quantities. As a result, educators frequently need to revisit and reteach these concepts to ensure mastery.

Pearson Education Inc recognizes these challenges and offers targeted resources aimed at reteaching these skills effectively. The company's approach is rooted in research-based pedagogical principles, emphasizing clarity, engagement, and scaffolding.

Pearson?s Reteaching Resources for Multiplying Mixed Numbers

1. Explicit Step-by-Step Instruction

Pearson emphasizes breaking down the process into clear, manageable steps:

- Converting mixed numbers to improper fractions
- Multiplying numerators and denominators
- Simplifying the resulting fractions
- Converting back to mixed numbers if necessary

This explicit instruction aims to demystify the process and make each step transparent to learners.

2. Visual and Conceptual Representations

To assist visual learners and deepen conceptual understanding, Pearson?s materials often incorporate:

- Area models illustrating the multiplication of fractions
- Number line diagrams for understanding improper fractions and mixed numbers
- Real-world word problems contextualizing multiplication

These representations serve to connect procedural knowledge with conceptual comprehension.

3. Common Misconceptions Addressed

Pearson?s reteaching modules explicitly target typical student errors, such as:

- Confusing the process of multiplying mixed numbers directly without converting
- Forgetting to simplify fractions after multiplication
- Misunderstanding the relationship between improper fractions and mixed numbers

By highlighting these pitfalls, the resources aim to preempt errors and reinforce correct procedures.

4. Practice and Reinforcement Activities

Effective reteaching involves ample practice. Pearson provides:

- Multiple-choice questions
- Fill-in-the-blank exercises
- Word problems requiring real-world application
- Interactive digital activities to engage students

These activities are designed to reinforce understanding and promote retention.

Pedagogical Strategies and Theoretical Foundations

Constructivist Approach

Pearson?s materials are rooted in constructivist principles, encouraging students to build understanding through exploration and guided discovery. Visual models and real-world contexts facilitate meaningful learning.

Scaffolding and Differentiation

Recognizing diverse learner needs, Pearson offers scaffolded activities that gradually increase in complexity. Additional supports, such as hints and step prompts, assist struggling learners, while extension tasks challenge advanced students.

Assessment-Driven Instruction

Formative assessments embedded within the resources enable teachers to identify misconceptions promptly, allowing for targeted reteaching. Summative assessments evaluate overall mastery post-intervention.

Alignment with Educational Standards and Curriculum Frameworks

Pearson?s resources align with widely adopted standards such as the Common Core State Standards (CCSS) and National Council of Teachers of Mathematics (NCTM) guidelines. Specifically, they address:

- Understanding the properties of operations and their application to fractions
- Developing fluency in multiplying fractions and mixed numbers
- Applying mathematical reasoning to solve real-world problems involving fractions

This alignment ensures that reteaching supports curriculum goals and prepares students for standardized assessments.

Effectiveness and Limitations of Pearson?s Reteaching Materials

Strengths

- Clarity and Organization: Step-by-step instructions reduce cognitive load and clarify procedures.
- Use of Visuals: Multiple representations cater to varied learning styles.
- Targeted Practice: Diverse exercises reinforce skills and monitor progress.
- Digital Integration: Interactive activities increase engagement and accessibility.

Limitations

- One-Size-Fits-All Approach: Despite differentiation options, some students may require more personalized interventions.
- Potential Overemphasis on Procedures: Less focus on conceptual understanding may hinder transferability to new contexts.
- Technology Dependence: Digital resources may not be accessible to all students, limiting equitable access.

Conclusion: Evaluating Pearson?s Approach to Reteaching Multiplying Mixed Numbers

Pearson Education Inc?s reteaching resources for multiplying mixed numbers demonstrate a comprehensive, research-informed approach aimed at addressing common student difficulties. Their emphasis on procedural clarity, conceptual understanding through visual models, and targeted practice aligns well with best practices in mathematics instruction.

However, to optimize effectiveness, educators should complement Pearson?s materials with differentiated instruction tailored to individual student needs, promote deeper conceptual discussions, and ensure equitable access to digital tools.

Overall, Pearson?s resources serve as a valuable component within a broader instructional strategy, supporting teachers in fostering mastery of multiplying mixed numbers. Continued evaluation and adaptation are necessary to meet the diverse needs of learners and to ensure that foundational skills are both understood and applied confidently.

In summary, Pearson Education Inc provides a structured, well-researched framework for reteaching multiplying mixed numbers, emphasizing procedural proficiency and conceptual understanding. While effective, its success ultimately depends on thoughtful implementation and supplementary instructional practices that cater to diverse learner profiles.

QuestionAnswer How do you multiply mixed numbers using Pearson Education's reteaching methods? To multiply mixed numbers, first convert each mixed number to an improper fraction, then multiply the numerators and denominators, and finally simplify the result if possible. What are the key steps in reteaching multiplying mixed numbers for students? The key steps include converting mixed numbers to improper fractions, multiplying numerators and denominators, and simplifying the resulting fraction to its lowest terms. Why is it important to convert mixed numbers to improper fractions before multiplying? Converting to improper fractions simplifies the multiplication process and helps students avoid common errors when multiplying mixed numbers directly. Can you provide an example of multiplying mixed numbers using Pearson's reteaching strategies? Sure! For example, to multiply 2 1/3 by 3 1/2, convert to improper fractions: 7/3 × 7/2. Multiply numerators: 7×7=49, denominators: 3×2=6, resulting in 49/6. Simplify if needed. What common mistakes should students avoid when multiplying mixed numbers? Students should avoid forgetting to convert mixed numbers to improper fractions, incorrect multiplication of numerators and denominators, and failing to simplify the final answer. How does Pearson Education suggest reteaching multiplying mixed numbers to struggling students? Pearson recommends using visual models, step-by-step guided practice, and real-world examples to reinforce understanding and build confidence. What are some tips for teachers to effectively reteach multiplying mixed numbers? Teachers should emphasize the importance of conversion, provide plenty of practice problems, incorporate visual aids, and check for understanding frequently. Is there a quick method to multiply mixed numbers without converting to improper fractions? While some methods attempt to multiply mixed numbers directly, converting to improper fractions is generally more accurate and recommended for clarity and ease.

Related keywords: Pearson Education, reteaching, multiplying mixed numbers, math instruction, grade 5 math, mixed number multiplication, math curriculum, educational resources, teaching strategies, student practice

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