

adding unlike fractions worksheet pdf

Mastering the Art of Adding Unlike Fractions: A Comprehensive Guide to "Adding Unlike Fractions Worksheet PDF" Resources

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Keywords: adding unlike fractions worksheet pdf, adding fractions with different denominators worksheet pdf, unlike fractions worksheets pdf, adding fractions worksheet pdf, free adding unlike fractions worksheet pdf, printable adding unlike fractions worksheet pdf, math worksheets pdf, fraction worksheets pdf, elementary math worksheets pdf, middle school math worksheets pdf.

Introduction: Navigating the Nuances of "Adding Unlike Fractions Worksheet PDF"

Adding unlike fractions can be a stumbling block for many students learning elementary and middle school mathematics. The concept requires a solid understanding of equivalent fractions, least common denominators (LCD), and the fundamental principles of fraction addition. This article provides a comprehensive overview of the challenges associated with adding unlike fractions, highlighting the value of "adding unlike fractions worksheet pdf" resources and offering guidance on selecting and utilizing them effectively. We'll explore various types of worksheets, discuss effective teaching strategies, and address common student misconceptions.

Understanding the Challenges of Adding Unlike Fractions

Unlike adding like fractions (fractions with the same denominator), adding unlike fractions necessitates a preliminary step: finding a common denominator. This often requires students to understand and apply their knowledge of factors, multiples, and prime factorization. The process of finding the LCD, while seemingly simple, can be complex, especially when dealing with larger numbers or fractions with multiple prime factors in their denominators. Students may struggle with:

Identifying common multiples: Recognizing the least common multiple (LCM) of two or more numbers is critical. Students may confuse LCM with greatest common factor (GCF).

Equivalent fractions: Transforming fractions into equivalent fractions with the common denominator requires a firm grasp of equivalent fraction concepts. Many students struggle with the proportional reasoning needed to correctly adjust the numerator.

Simplifying fractions: After adding, the resulting fraction often needs simplification. This involves finding the GCF of the numerator and denominator and reducing the fraction to its simplest form. Errors often occur in this final step.

The Value of "Adding Unlike Fractions Worksheet PDF" Resources

"Adding unlike fractions worksheet pdf" resources provide a structured and accessible way for students to practice and reinforce their understanding of this important mathematical concept. These worksheets offer several key advantages:

Targeted practice: Worksheets allow students to focus specifically on adding unlike fractions, providing repeated practice on a single skill.

Immediate feedback: Many worksheets include answer keys, allowing students to check their work and identify areas where they need further assistance.

Differentiated instruction: Worksheets are available at various difficulty levels, accommodating different student skill sets and learning paces.

Accessibility and convenience: "Adding unlike Fractions worksheet pdf" resources are readily available online and can be printed for convenient use at home or in the classroom.

Visual learning: Worksheets often employ visual aids like diagrams and illustrations, enhancing comprehension for visual learners.

Selecting and Utilizing "Adding Unlike Fractions Worksheet PDF" Effectively

Choosing the right "adding unlike fractions worksheet pdf" is crucial for effective learning. Consider the following factors:

Difficulty level: Select worksheets appropriate to the student's current skill level. Start with easier problems and gradually increase the complexity.

Variety of problems: Look for worksheets that offer a variety of problem types, including those with different denominators, mixed numbers, and simplified answers.

Clear instructions: Ensure the instructions are clear and concise, leaving no room for misinterpretation.

Answer key: An answer key is essential for allowing students to self-check their work and identify errors.

Visual aids: Worksheets incorporating visual aids are beneficial for enhancing understanding.

Types of "Adding Unlike Fractions Worksheet PDF"

Several types of "adding unlike fractions worksheet pdf" are available, each catering to different learning styles and needs:

Basic worksheets: These focus on adding two unlike fractions with relatively small denominators.

Advanced worksheets: These introduce larger denominators, mixed numbers, and word problems.

Worksheets with visual aids: These incorporate diagrams or models to help students understand the concept visually.

Worksheets with real-world applications: These present problems in real-world contexts to enhance engagement and relevance.

Addressing Common Misconceptions

Students often encounter common misconceptions when adding unlike fractions. These include:

Adding numerators and denominators directly: Students may incorrectly add the numerators and denominators without finding a common denominator.

Incorrectly finding the LCD: Students may struggle with identifying the least common multiple, leading to errors in finding the common denominator.

Errors in simplifying fractions: Students may fail to simplify their answers to the lowest terms.

Teaching Strategies for Adding Unlike Fractions

Effective teaching strategies are essential for helping students master adding unlike fractions. These strategies include:

Modeling: Demonstrate the process of adding unlike fractions step-by-step using visual aids like fraction bars or circles.

Guided practice: Provide students with opportunities to practice adding unlike fractions under your supervision, providing immediate feedback and support.

Independent practice: Assign "adding unlike fractions worksheet pdf" for independent practice, allowing students to apply their skills without constant assistance.

Real-world applications: Connect the concept of adding unlike fractions to real-world scenarios, making it more relevant and engaging for students.

Formative assessment: Use various assessment methods, including worksheets, quizzes, and class discussions, to monitor students' understanding and identify areas needing further attention.

Conclusion

"Adding unlike fractions worksheet pdf" resources are invaluable tools for teaching and learning this crucial mathematical skill. By carefully selecting appropriate worksheets and employing effective teaching strategies, educators can help students overcome the challenges of adding unlike fractions and build a strong foundation in fractional arithmetic. The accessibility and versatility of these resources make them an essential component of a comprehensive mathematics curriculum.

FAQs

1. Where can I find free "adding unlike fractions worksheet pdf" resources? Many educational websites offer free printable worksheets. Search online for "free adding unlike fractions worksheets pdf."
1. Are there "adding unlike fractions worksheet pdf" resources specifically designed for different grade levels? Yes, worksheets are available for various grade levels, catering to the specific curriculum and skill level of each grade.

1. How can I differentiate instruction using "adding unlike fractions worksheet pdf"? Use different worksheets based on student abilities, providing more challenging worksheets for advanced students and simpler ones for those needing extra support.
1. What are some common mistakes students make when using "adding unlike fractions worksheet pdf"? Common errors include adding numerators and denominators directly, failing to find the LCD, and incorrectly simplifying fractions.
1. How can I use "adding unlike fractions worksheet pdf" to assess student understanding? Use the worksheets as formative assessments, reviewing student work to identify areas of weakness and provide targeted instruction.
1. Are there "adding unlike fractions worksheet pdf" resources that include word problems? Yes, many worksheets include word problems to apply the concept to real-world situations.
1. How often should students use "adding unlike fractions worksheet pdf" for practice? Regular practice is key. The frequency depends on the student's individual needs and learning pace.
1. Can "adding unlike fractions worksheet pdf" be used for homework assignments? Yes, these worksheets are excellent for homework assignments, allowing students to practice independently.
1. What are some alternative methods to teaching adding unlike fractions besides using "adding unlike fractions worksheet pdf"? Use visual aids like fraction circles or bars, manipulatives, and interactive online games.

Related Articles

1. Adding Fractions with Different Denominators: A Step-by-Step Guide: This article provides a detailed explanation of the steps involved in adding fractions with different denominators,

including finding the LCD and simplifying the answer.

1. Understanding Least Common Multiples (LCM) in Fraction Addition: This article focuses on the importance of understanding LCM in the context of adding unlike fractions.
1. Equivalent Fractions and Their Role in Adding Unlike Fractions: This article explores the concept of equivalent fractions and their crucial role in the process of adding unlike fractions.
1. Simplifying Fractions: A Comprehensive Guide: This article provides a thorough explanation of how to simplify fractions, which is an essential step in adding unlike fractions.
1. Solving Word Problems Involving Adding Unlike Fractions: This article presents various word problems that require students to apply their knowledge of adding unlike fractions.
1. Visual Aids for Teaching Fraction Addition: This article explores different visual aids, such as fraction bars and circles, that can be used to teach fraction addition.
1. Common Mistakes in Adding Unlike Fractions and How to Avoid Them: This article identifies common errors made when adding unlike fractions and provides strategies to prevent these mistakes.
1. Differentiated Instruction Strategies for Adding Unlike Fractions: This article discusses different strategies for differentiating instruction to meet the needs of diverse learners when teaching adding unlike fractions.
1. Assessing Student Understanding of Adding Unlike Fractions: This article outlines different assessment methods that can be used to evaluate student understanding of adding unlike fractions.

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adding unlike fractions worksheet pdf: Easy Fractions Remedia Publications, 2021-12-29 Grade Level: 1-2 CCSS Math Level: 3 An introduction to fractions! Easy-to-grasp, graphically illustrated shapes are used to begin teaching the concept of fractions. Example: A half-moon shape is divided into two even parts and students are asked to color the fraction $\frac{1}{2}$. In all, there are 25 lessons in this teaching unit. As they work through the exercises, students will enjoy identifying, drawing, coloring, and dividing the basic shapes into fractions of $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{8}$, $\frac{1}{3}$ and on and on.

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the basics through fraction and mixed number operations. The three-part lessons include teacher-guided exploration, independent practice, and opportunities to apply new concepts. The book also includes notes, suggestions, and a standards matrix and supports NCTM standards.

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adding unlike fractions worksheet pdf: [Math Mammoth Introduction to Fractions](#) Maria Miller, 2024-04-02 Math Mammoth Introduction to Fractions contains lessons for fraction arithmetic for grades 1-4. This material does not include division or multiplication of fractions, nor adding unlike fractions, which are topics for 5th and 6th grades. Also, most of the material here is for 3rd and 4th grades, and only a few lessons are meant for grades 1-2. The topics covered are on a simple level, constantly illustrated with visual models, and with small denominators. The presentation avoids spelling out specific rules for manipulating fractions, but instead relies on the usage of pictures on a very concrete level. Children easily confuse the various rules for fraction arithmetic, because there are so many. There is a place for the rules, as shortcuts for ideas that are already understood, but we do not start with them. The goal is to let the big ideas sink in conceptually first, followed by some shortcuts. The topics covered are one half and one fourth concept of a fraction concept of a mixed number comparing fractions equivalent fractions adding and subtracting like fractions adding and subtracting mixed numbers with like fractional parts adding one fraction that has tenths and another that has hundredths (such as $\frac{3}{10} + \frac{7}{100}$) multiplying a fraction by a whole number The lessons are organized by topic, not by increasing difficulty. For reference, 1st grade students study only the concept of one half and one fourth. In 2nd grade, they study the concept of a fraction and optionally the easiest (first) lesson on comparing fractions. In 3rd grade, students study the concept of a fraction, fractions on a number line, comparing fractions, and equivalent fractions. Then in 4th, they study mixed numbers, comparing fractions, equivalent fractions, adding and subtracting fractions and mixed numbers, and multiplying fractions by whole numbers. The answers are appended.

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Colour Eng S Jama, Visual addition of maths fractions for visual learner kids who are no fun of text-based fractions. Step-by-step visual tutorial on adding like fractions with same denominators and unlike fractions with different denominators. □ Visually teaches addition of maths fractions using colour-coded shapes and fraction association. □ Illustrated with colour shapes to develop learner's understanding of addition of common maths fractions. □ Introduces, enforces and extensively employs the principle of equivalent fractions, decimal fractions, whole numbers and percentages using colour-coded shapes, sums and proper fractions together. □ Compares fractions, decimals and percentages. □ Excellent introductions to fractions and equivalent fractions. □ Quick quizzes on addition of fractions to check learner's understanding and progress! □ Uses easy language, a lot of coloured shapes, fraction additions and simple maths vocabulary. Ages 5-11, Grades Kindergarten-5th grader or Year group 1-6 in primary education (infants, elementary and junior schools). Click the Buy Now button (top right of this page) to get a copy. Also available: Colouring workbook — mybook.to/WB2-Sh. Paperback — mybook.to/B-2. Colour paperback — mybook.to/B2-C. Workbook — mybook.to/WB2. Colour workbook — mybook.to/WB2-C. ePUB eBook — books2read.com/eB2. A perfect gift for a loved child, visual learner, kids with special educational needs, or someone who is no fan of text-based fractions. PS; Please, don't forget to click the Buy Now button to get your copy. Thanks for checking.

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With Fractions and Decimals Jennifer M. Bay-Williams, John J. SanGiovanni, Sherri Martinie, Jennifer Suh, 2022-01-03 Because fluency practice is not a worksheet. Fluency in mathematics is more than adeptly using basic facts or implementing algorithms. It is not about speed or recall. Real fluency is about choosing strategies that are efficient, flexible, lead to accurate solutions, and are appropriate for the given situation. Developing fluency is also a matter of equity and access for all learners. The landmark book *Figuring Out Fluency in Mathematics Teaching and Learning* offered educators the inspiration to develop a deeper understanding of procedural fluency, along with a plethora of pragmatic tools for shifting classrooms toward a fluency approach. Now, teachers have the chance to apply that inspiration through explicit instruction and practice every day with the classroom companion *Figuring Out Fluency: Addition and Subtraction with Fractions and Decimals*. With this book, teachers can: Dive deeper into the Significant Strategies for fluency explained in the anchor book Learn how these strategies grow from and relate to the basic fact strategies children learn Access over 100 strategy-aligned and classroom-ready activities for fluency instruction and practice in adding and subtracting fractions and decimals, including worked examples, routines, games, and centers Find activities for assessing all components of addition and subtraction fluency for fractions and decimals, plus support for engaging families Download all of the needed support tools, game boards, and other resources from the companion website for immediate implementation. Give each and every student the knowledge and power to become skilled and confident mathematical thinkers and doers.

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Guide to Teaching or Learning Fractions Lisa Hernandez, M.S. Ed., 2015-02-21 Welcome to The Amazing 8-Day, Super-Simple, Scripted Guide to Teaching or Learning Fractions. I have attempted to do just what the title says: make learning fractions super simple. I have also attempted to make it fun and even ear-catching. The reason for this is not that I am a frustrated stand-up comic, but because in my fourteen years of teaching the subject, I have come to realize that my jokes, even the bad ones, have a crazy way of sticking in my students' heads. And should I use a joke (even a bad one) repetitively, the associations become embedded in their brains, many times to their chagrin! What is so different about this book? First of all, it is scripted, so that tutors, parents and teachers alike can deliver the lessons easily and without frustration. Secondly, the scripts and lessons have been carefully crafted to be ageless -- that is, to apply to any learner, based on age or level of mathematical mastery. Finally, the lessons have been carefully culled and edited over a decade in order to include the most necessary information in a finite and reasonable timetable, something (in

this educator's opinion) other books seem to lack.

Additional Resources

Adding unlike fractions - K5 Learning

Grade 5 Fractions Worksheet - Adding unlike fractions Author: K5 Learning Subject: Grade 5 Fractions Worksheet Keywords: Grade 5 Fractions Worksheet - Adding unlike fractions math ...

Math Worksheets Name: Date: Add and Subtract Fractions ...

Add and Subtract Fractions with Unlike Denominators Find the sum. 1) $\frac{1}{3} + \frac{2}{3} =$ 2) $\frac{1}{2} + \frac{1}{3} =$ 3) $\frac{2}{5} + \frac{1}{2} =$ 4) $\frac{3}{7} + \frac{2}{3} =$ 5) $\frac{3}{4} + \frac{2}{5} =$ 6) $\frac{3}{5} + \frac{1}{5} =$ 7) $\frac{5}{9} + \frac{1}{2} =$ 8) $\frac{3}{5} + \frac{3}{8} =$ 9) $\frac{5}{9} + \frac{3}{7} =$...

Adding and Subtracting Fractions with Unlike Denominators

Evaluate each expression. Find each difference.

Name : 8 12 MATH MONKS Adding and Subtracting Fractions ...

Adding and Subtracting Fractions with Unlike Denominators Answers. 4 $\frac{10}{6}$ 15 $\frac{10}{12}$ 4 $\frac{10}{4}$ 8 $\frac{40}{10}$ 6 $\frac{14}{10}$ 5 $\frac{3}{10}$

Adding and Subtracting Unlike Fractions - Math Mammoth

Convert the fractions to like fractions first, and then add or subtract. In the bottom problems (d-f), you need to figure out what kind of pieces to use, but the top problems (a-c) will help you do that!

Fractions Worksheet - homeschoolmath.net

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Fractions Addition 2 pdf - Corbettmaths

Adding Fractions: Different Denominators Video 133 on www.corbettmaths.com Question 1: Work out the following additions and subtractions. Give your answers as simplified fractions. (a) (b) ...

Adding unlike fractions - Richmond County School System

Grade 5 Fractions Worksheet - Adding unlike fractions Author: K5 Learning Subject: Grade 5 Fractions Worksheet Keywords: Grade 5 Fractions Worksheet - Adding unlike fractions math ...

Name: Adding Fractions - Super Teacher Worksheets

Adding Fractions with the Unlike Denominator, Requires Simplifying Super Teacher Worksheets - www.superteacherworksheets.com

ADDING UNLIKE FRACTIONS WORKSHEET-I - Amazon Web ...

ADDING UNLIKE FRACTIONS WORKSHEET-I . The early applications of fractions included the division of food, supplies and the absence of a bullion currency. The word fraction has its ...

Adding Fractions Different Denominators - Corbettmaths ...

Adding Fractions: Different Denominators Tips • Read each question carefully • Attempt every question. • Check your answers seem right. • Always show your workings Recap Remember • ...

Add and Subtract Fractions with Unlike Denominators: ...

Draw a picture of the model and write the equivalent fractions.

Adding and Subtracting Fractions with Unlike Denominators

Evaluate each expression. Find each difference.

Name : Adding Unlike Fractions MATH MONKS Solve each ...

Adding Unlike Fractions MATH MONKS Solve each question. Write the answers in the simplest form. 13 11 26 13 3 10 11 8 21 8 13 13 16 52 9 10 6 3 5 11 12 12 10

Name: Adding Fractions - slambresources

Adding Fractions Answers Solve the equations. Worksheet 1 1. $1\frac{1}{2} + 1\frac{1}{4} = 3\frac{3}{4}$ 2. $1\frac{5}{10} + 7\frac{10}{10} = 9\frac{10}{10}$ 3. $1\frac{6}{18} + 2\frac{18}{18} = 5\frac{18}{18}$ 4. $1\frac{4}{12} + 2\frac{12}{12} = 5\frac{12}{12}$ 5. $1\frac{5}{15} + 3\frac{15}{15} = 6\frac{15}{15}$ 6. $1\frac{8}{8} + 3\frac{4}{8} = 7\frac{8}{8}$ 7. $1\frac{2}{8} + 3\frac{8}{8} = \dots$

Adding unlike fractions - K5 Learning

Grade 5 Fractions Worksheet - Adding unlike fractions Author: K5 Learning Subject: Grade 5 Fractions Worksheet Keywords: Grade 5 Fractions Worksheet - Adding unlike fractions math ...

Adding and Subtracting Fractions with Unlike Denominators

When adding and subtracting fractions with like denominators, add or subtract the numerators, while keeping the denominator the same. The process is different when adding and subtracting ...

Add and Subtract Fractions and Mixed Numbers with Unlike ...

Use the common denominator to write equivalent fractions with like denominators. STEP 3 Subtract the fractions.

Adding mixed numbers (unlike denominators) - K5 Learning

Grade 5 Fractions Worksheet - Adding mixed numbers (unlike denominators) Author: K5 Learning Subject: Grade 5 Fractions Worksheet Keywords: Grade 5 Fractions Worksheet - Adding ...

Add and Subtract Fractions with Unlike Denominators - Leon ...

Sometimes, the sum of two fractions is greater than 1. When adding fractions When adding fractions with unlike denominators, you can use the 1 -whole strip to help determine if

Adding unlike fractions - K5 Learning

Grade 5 Fractions Worksheet - Adding unlike fractions Author: K5 Learning Subject: Grade 5 Fractions Worksheet Keywords: Grade 5 Fractions Worksheet - Adding unlike fractions math ...

Math Worksheets Name: Date: Add and Subtract Fractions ...

Add and Subtract Fractions with Unlike Denominators Find the sum. 1) $1\frac{1}{3} + 2\frac{2}{3} = 2)$ $1\frac{1}{2} + 1\frac{1}{3} = 3)$ 7) $2\frac{5}{12} + 1\frac{1}{2} = + = 4)$ $3\frac{7}{12} + 2\frac{2}{3} = 5)$ $3\frac{4}{5} + 2\frac{1}{5} = + 6)$ $3\frac{5}{10} + 1\frac{1}{5} = + 5 9 1 2 8)$ $3\frac{5}{8} + 3\frac{8}{8} = 9)$ $5 9 3 7 = \dots$

Adding and Subtracting Fractions with Unlike Denominators

Evaluate each expression. Find each difference.

Name : 8 12 MATH MONKS Adding and Subtracting ...

Adding and Subtracting Fractions with Unlike Denominators Answers. 4 10 6 15 10 12 4 10 4 8 40 10 6 14 10 5 3

Adding and Subtracting Unlike Fractions - Math Mammoth

Convert the fractions to like fractions first, and then add or subtract. In the bottom problems (d-f), you need to figure out what kind of pieces to use, but the top problems (a-c) will help you do that!

Fractions Worksheet - homeschoolmath.net

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Fractions Addition 2 pdf - Corbettmaths

Adding Fractions: Different Denominators Video 133 on www.corbettmaths.com Question 1: Work out the following additions and subtractions. Give your answers as simplified fractions. (a) (b) ...

Adding unlike fractions - Richmond County School System

Grade 5 Fractions Worksheet - Adding unlike fractions Author: K5 Learning Subject: Grade 5 Fractions Worksheet Keywords: Grade 5 Fractions Worksheet - Adding unlike fractions math ...

Name: Adding Fractions - Super Teacher Worksheets

Adding Fractions with the Unlike Denominator, Requires Simplifying Super Teacher Worksheets - www.superteacherworksheets.com

ADDING UNLIKE FRACTIONS WORKSHEET-I - Amazon ...

ADDING UNLIKE FRACTIONS WORKSHEET-I . The early applications of fractions included the division of food, supplies and the absence of a bullion currency. The word fraction has its ...

Adding Fractions Different Denominators - Corbettmaths ...

Adding Fractions: Different Denominators Tips • Read each question carefully • Attempt every question. • Check your answers seem right. • Always show your workings Recap Remember • ...

Add and Subtract Fractions with Unlike Denominators: ...

Draw a picture of the model and write the equivalent fractions.

Adding and Subtracting Fractions with Unlike Denominators

Evaluate each expression. Find each difference.

Name : Adding Unlike Fractions MATH MONKS Solve each ...

Adding Unlike Fractions MATH MONKS Solve each question. Write the answers in the simplest form. 13 11 26 13 3 10 11 8 21 8 13 13 16 52 9 10 6 3 5 11 12 12 10

Name: Adding Fractions - slambresources

Adding Fractions Answers Solve the equations. Worksheet 1 1. $1\frac{1}{2} + 1\frac{1}{4} = 3\frac{3}{4}$ 2. $1\frac{5}{10} + 7\frac{10}{10} = 9\frac{10}{10}$ 3. $1\frac{6}{18} + 2\frac{18}{18} = 5\frac{18}{18}$ 4. $1\frac{4}{12} + 2\frac{12}{12} = 5\frac{12}{12}$ 5. $1\frac{5}{15} + 3\frac{15}{15} = 6\frac{15}{15}$ 6. $1\frac{8}{34} + 3\frac{4}{34} = 7\frac{8}{34}$ 7. $1\frac{2}{38} + 3\frac{8}{38} = 4\frac{10}{38}$

Adding unlike fractions - K5 Learning

Grade 5 Fractions Worksheet - Adding unlike fractions Author: K5 Learning Subject: Grade 5 Fractions Worksheet Keywords: Grade 5 Fractions Worksheet - Adding unlike fractions math ...

Adding and Subtracting Fractions with Unlike Denominators

When adding and subtracting fractions with like denominators, add or subtract the numerators, while keeping the denominator the same. The process is different when adding and subtracting ...

Add and Subtract Fractions and Mixed Numbers with Unlike ...

Use the common denominator to write equivalent fractions with like denominators. STEP 3 Subtract the fractions.

Adding mixed numbers (unlike denominators) - K5 Learning

Grade 5 Fractions Worksheet - Adding mixed numbers (unlike denominators) Author: K5 Learning

Subject: Grade 5 Fractions Worksheet Keywords: Grade 5 Fractions Worksheet - Adding ...

Add and Subtract Fractions with Unlike Denominators

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