Addition and subtraction of mixed numbers with like denominators worksheets

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To get the worksheet in html format, push the button "View in browser" or "Make html worksheet". This has the advantage that you can save the worksheet directly from your browser (choose File → Save) and then edit it in Word or other word processing program. Sometimes the generated worksheet is not exactly what you want. Just try again! To get a different worksheet using the same options: PDF format: come back to this page and push the button again. Html format: simply refresh the worksheet page in your browser window. Tip: chose value 1 to be a fraction and value 2 to be a mixed number, and then tick the box of "Value 1 - Value 2 random switching" to make problems where either the first or the second number is a mixed number. Just experiment with the options to customize the worksheets as you like! Here are some quick links for ready worksheets. Refresh the worksheet page to get another of the same kind. Addition and subtraction of like fractions (2 fractions, easy, for 4th grade) Addition and subtraction of like fractions (3 fractions, for 4th grade) Addition and subtraction of 2 mixed numbers with like fractional parts (for 4th grade) Add & subtract 2 unlike fractions (for 5th grade) Add & subtract 3 unlike fractions (for 6th grade) Multiply a fraction by a whole number (for 5th grade) Multiply fractions and mixed numbers (mixed problems, for 5th grade) Division of fractions, special case (answers are whole numbers, for 5th grade) Divide by fractions (mixed problems, for 6th grade) Add two unlike fractions (incl. negative fractions, for 7th-8th grade) Add three unlike fractions (incl. negative fractions, for 7th-8th grade) Add or subtract 2 unlike fractions (negative fractions, for 7th-8th grade) Worksheets for comparing fractions Worksheets for equivalent fractions Worksheets for fraction addition Worksheets for fraction multiplication Worksheets for simplifying fractions, and converting fractions to mixed numbers and vv. Free fraction lessons Interactive Unit Fractions Drag unit fraction pieces (1/2, 1/3, 1/4, 1/5, 1/6, 1/8, 1/9, 1,10, 1/12, 1,16, and 1/20) onto a square that represents one whole. You can see that, for example, 6 pieces of 1/6 fit into one whole, or that 3 pieces of 1/9 are equal to 1/3, and many other similar relationships. Fraction worksheets generator Use the generator below to make customized worksheets for fraction operations. These workbooks by Key Curriculum Press feature a number of exercises to help your child learn about fractions. Book 1 teaches fraction concepts, Book 2 teaches multiplying and dividing, Book 3 teaches adding and subtracting, and Book 4 teaches mixed numbers. Each book has a practice test at the end. => Learn more Copyright © 2021 K5 Learning Copyright © 2021 K5 Learning Mixed Numbers(Basic Concept)Students write the mixed number shown by each illustration.3rd through 5th GradesOrdering and ComparingMixed NumbersImproper Fractions andMixed NumbersTask Cards: Improper Fractions & Mixed NumbersWrite improper fractions as mixed numbers, and vice-versa. This set includes 30 task cards and an answer sheet. Use these cards for learning centers, small group instruction, classroom games, exit slips, or scavenger hunts.3rd through 5th GradesCut out each improper fraction and glue it next to the correct mixed number. This version has denominators equal to 5 or less.3rd and 4th GradesCut out each mixed number and glue it next to the correct improper fraction. This version is harder, with denominators up to 12.3rd and 4th Grades A fraction can be defined as a part of a whole number which can be represented numerically.For example:Bheem drank two and a half glass of milk i.e. 2 ½ and Indu drank one and a half glass of milk.i.e. 1 ½ .In this example, the half glass of milk is represented as a numerical quantity.Introduction to Addition and Subtraction of FractionFrom the above example the question arises, what is the total amount of milk that they drank? In this case, the addition and subtraction of fractions take place to find the total quantity of an item. How do we add fraction? How to subtract fractions? What are the steps to add or subtract? Let us learn about Addition and Subtraction of Fractions.Methods for Adding and Subtracting FractionsUnlike whole numbers adding and subtracting fraction is not easy it requires different methods for different types of fraction. The following methods will guide you through addition and subtraction of fractions.Addition and subtraction of Like fractionAddition and subtraction of unlike fractionAddition and Subtraction of Mixed fractionAddition and Subtraction of Like FractionThe fractions which have the same denominators are known as Like fractions. Additional and subtraction of like fraction is quite easy, as the denominator of the fractions are same.Example 1:1/4 + 2/4 =?In the above example the denominator of the fraction is the same.   1/4 =   2/4 = The above diagram gives the pictorial representation of the fractions. The circle is divided into 4 parts which is the denominator and the colored part represents the numerator.Steps for Addition of Like Fractions:Step1: check the denominators of the fraction, If the denominator is the same or not. Step2: If the denominators are the same, add the numerators of the fraction keeping the denominator as it is.Step3: Solution   1/4 + 2/4 = 3/4 Example 2: 6/8 – 2/8 =?Steps for Subtraction of Like Fractions:Step1: Check the denominators of the fraction, If the denominator is the same or not.Step2: Subtract the smaller numerator with the larger one keeping the denominator as it is.Step3: Solution 6/8 – 2/8 = 4/8 Addition and Subtraction of Unlike FractionThe fractions which have the different denominators are known as unlike fractions. For addition and subtraction of fraction the denominators of the fraction should be the same. So we need to make them the same by taking LCM of the denominators.Example 3: 4/6 + 2/8 =?Steps for Addition of Unlike Fractions:Step 1: Take LCM of the denominators of the given fractions.In this example the LCM of 6 and 8 is 24.(LCM is the least common multiple of two numbers)Step 2: To get the same denominator 8 and 12 should be converted into 24 by multiplying the suitable multiple to both numerator and denominator.For 4/6 , 4/4 will be multiplied 4/6 x 4/4 = 16/24For 2/8 , 3/3 will be multiplied 2/8 x 3/3 = 6/24Step 3: Now, the denominators of the two fractions are the same .Add the numerator keeping the denominator as it is. 16/24 + 6/24 = 22/24Example 4: 4/6 - 2/8 =?Steps for Subtraction of Unlike Fractions:Step 1: Take LCM of the denominators of the given fractions. In this example the LCM of 6 and 8 is 24.(LCM is the least common multiple of two numbers)Step 2: To get the same denominator 8 and 12 should be converted into 24 by multiplying the suitable multiple to both numerator and denominator.For 4/6 , 4/4 will be multiplied 4/6 x 4/4 = 16/24For 2/8 , 3/3 will be multiplied 2/8 x 3/3 = 6/24Step 3: Now, the denominators of the two fraction are the same .Subtract the numerator keeping the denominator as it is. 16/24 - 6/24 = 10/24Addition and Subtraction of Mixed FractionA mixed fraction can be defined as a combination of a whole number and a fraction combined into one mixed number.For example : 2 1/4   is a mixed fraction2 1/4   =In the above diagram the whole number is represented by the circle which is completely colored and the fraction is represented by the circle which is partially colored.There are two methods for the addition and subtraction of mixed fraction. Addition and subtraction of like mixed fraction. Addition and subtraction of unlike mixed fraction.Addition and Subtraction of Like Mixed FractionExample 5: 3 3/4 + 2 2/4 =?Steps for Addition of Like Mixed Fraction Step1: First add the whole number of the mixed number3+2= 5 - (1)Step 2: Add the fractional part of the mixed number3/4 + 2/4 =5/4   -- (2) Step 3: Converting improper fraction into proper fractionEquation (2) ––> 5/4 = 1 1/4   -- (2) Step 4: Solution Combining equation (1) and (2)5+1 1/4   =6 1/4   Example 6: 3 3/4 + 2 2/4 =?Steps for Subtraction of Like Mixed Fraction Step1: First subtract the whole number of the mixed number3-2= 1 - (1)Step 2: Subtract the fraction part of the mixed number3/4 - 2/4 =1/4   -- (2) Step 3: Solution Combining equation (1) and (2)1+1/4   =11/4   Addition and Subtraction of Unlike Mixed FractionIn Unlike mixed fraction the denominator of the fractional part is different which needs to be made the same using LCM.Example 7: 3 3/4 + 2 2/6 =?Steps for Addition of Unlike Mixed Fraction -Step 1: First add the whole number of the mixed number3+2= 5 - (1)Step 2: Take the LCM of the fractional part and make the denominator sameThe LCM of 4 and 6 is 12For 3/4 , 3/3 will be multiplied 3/4 x 3/3 = 9/12For 2/6 , 2/2 will be multiplied 2/6 x 2/2 = 4/12Step 3: Adding the fraction with the same denominators 9/12+ 4/12 =13/12   -- (2) Step 4: Converting improper fraction into proper fractionEquation (2) ––> 13/12 = 1 1/12   -- (2) Step 5: Solution Combining equation (1) and (2)5+11/12   =61/12   Example 8: 33/4 – 22/6 =?Steps for Subtraction of Unlike Mixed Fraction Step1: First subtract the whole number of the mixed number3-2= 1 - (1)Step 2: Take the LCM of the fractional part and make the denominator sameThe LCM of 4 and 6 is 12For 3/4 , 3/3 will be multiplied 3/4 x 3/3 = 9/12For 2/6 , 2/2 will be multiplied 2/6 x 2/2 = 4/12Step 3: Subtracting the fraction with the same denominators 9/12 - 4/12 =5/12   -- (2) Step 4: Solution Combining equation (1) and (2)5+5/12   =51/12

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