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1 Find the least common multiples (LCM) for denominators. Because you have to make the denominators the same before you add fractions, find common multiples that they share. Then choose the lowest. For example, for 9/5 and 14/7 multiples 5 - 5, 10, 15, 20, 25, 30 and 35, while multiples 7 - 7, 14, 21, 28 and 35. 35 is the least common multiple. 2 Multiply the numerator and denominator to get similar denominators. You need to multiply the entire fraction to make the denominator the least common multiple. For example, multiply by 9/5 by 7 to get a denominator of 35. You also have to multiply the numerator by 7, so that the fraction becomes 63/35. 3 Turn the rest of the fractions into equivalent fractions. Remember that when you set up one fraction in your problem, you should also set up other fractions to make them equivalent. For example, if you adjusted 9/5 to 63/35, multiply by 14/7 by 5 to get 70/35. Your initial problem is 9/5 and 14/7 will turn into 63/35 and 70/35. 4 Add numerators, but leave the denominators the same - they do not change. Once all the denominators in your problem are the same, add the numbers. Put the answer to the denominator. For example, 63 + 70 and 133. Place it over the denominator to get 133/35. 5 Simplify or reduce the answer if necessary. If your answer is wrong, turn the fraction into a mixed number. To do this, divide the numerator into a denominator to get the whole number. Then look at how many pieces are left, and place that number on the denominator. Reduce the fraction if you can simplify it further. For example, 133/35 can be simplified to 3 28/35. The share can be reduced to 4/5, so the finished answer is 3 4/5. 1 Turn mixed numbers into the wrong fractions. If you have fractions with whole numbers, changing them to the wrong fractions will make it easier to add. The numbers of your wrong fractions will be larger than their denominators. For example, 6 3/8 and 9 1/24 will turn into 51/8 and 217/24. 2 If necessary, look for the lowest common denominator. If the denominators are different, you need to write down each denominator's multiples so you can find one that they have in common. For example, for a problem 51/8 and 217/24, list multiples of 8 and 24 to find 24. Because multiples of 8 include 8, 16, 24, 32 and 48, while multiples of 24 include 24, 48 and 72, 24 is the lowest overall multiple. 3 Make the equivalent of a fraction if you need to change denominators. All denominators should be the lowest common multiples you have found. Multiply the entire fraction by a number to make the denominator the smallest common multiple. For example, to make the denominator for 51/8 24, multiply the entire fraction by 3. You should get 153/24. 4 Change all the fractions in the problem to make them equivalent. If other fractions Your equation has different denominators, you will also have to multiply them so they have the same denominator. If a fraction already has that as a denominator, you don't need to adjust the fraction. For example, if you're working with 217/24, you won't need to adjust the fraction because it already has the same denominator. 5 Add the numerator, but leave the denominator the same, they do not change. You can add numerators as soon as the denominators are the same or if they were the same from the start. Once you've added a numerator, place the answer to the denominator. Avoid adding denominators. For example, 153/24 (217/24) 370/24. 6 Simplify your answer. If your answer number is larger than the denominator, you will have to split it up to get the whole number. To finish making a mixed number, write down how many parts you have leftovers. This will make a numerator that you can put on the same denominator. Continue to reduce the fraction until it is in its simplest form. For example, 370/24 will become 15 10/24 because 24 goes 370 15 times and has 10 parts 24 left. 10/24 can be further reduced to 5/12 for a ready response of 15 5/12. Add a new question Should I simplify the answers to my math problems? Yes, most teachers want you to show a simplistic answer. The question is how to identify equivalent fractions that are not in the simplest form? Multiply each fraction so that the denominators are the same. You can then check the numerator to see if the fractions are equal. The question I #9, but I don't know what the common factor is, what is it? A common factor is any simple number that will be evenly divided into each number is covered. The most common factor is the largest whole number, which is a common factor. For example, in step 9 above, 2 is the most common factor 6 and 8, so they are both divided into 2 to arrive at 3 and 4. In another example, to find the most common factor 42 and 315, first find all the factors of each number: 42 x 2 x 3 x 7, and 315 x 3 x 3 x 5 x 7. Common factors are 3 and 7, so the greatest overall factor is 42 and 315 is 7. The question is, what steps are used to add or subtract two fractions with different denominators? Take 1/3 and 1/4 as an example. Find the lowest common denominator (the smallest number, which includes both numbers at the bottom of the fraction; in this case, 12). To get the same denominator, multiply by 1/3 by 4 to get 4/12, and 1/4 to 3 to get 3/12. Now you can add them as usual. 4/12 No 3/12 7/12. What if my numerator is above my denominator? Then it becomes a mixed fraction, and you have whole numbers, for example, 8/5 and 1 3/5. The question is what if there is no numerator equal to the denominator? The number should not be equal for you to add it. Only denominators should be equal. Equal. How do you subtract the fractions? If necessary, convert one or both fractions until they have the same denominator and then subtract one numerator from the other. The question is How do you work, which fraction is higher with different denominators? Convert both into fractions with the same denominator. For example, if you have 2/3 and 3/4, you can multiply the number and denominator of the first fraction by 4 and multiply the number and denominator of the second fraction by 3 to get 8/12 and 9/12. Then it's clear that more. The question is how to add fractions and mixed numbers? Change the mixed numbers to the wrong fractions, change one or more fractions until they all have the same denominator, then add them. The question is what if there are 3 fractions I have to multiply? Multiply all the numerator together to get a new numerator. Multiply all the denominators together to get a new denominator. For example, multiply these three fractions: (2/5) by (4/7) by (3/8). The new numerator is 2 x 4 x 3 and 24. The new denominator is 5 x 7 x 8 and 280. Thus, the product is 24/280, which is reduced to 3/35. Show more answers Ask a question every day on wikiHow, we work hard to give you access to instructions and information that will help you live better, whether it's keeping you safer, healthier, or improving your well-being. In today's public health and economic crises, where the world is changing dramatically and we are all learning and adapting to changes in everyday life, people need wikis more than ever. Your support helps wikiHow create more in-depth illustrated articles and videos and share our trusted brand of educational content with millions of people around the world. Please consider contributing to WikiCao today. This article was co-authored by our trained team of editors and researchers who tested it for accuracy and completeness. The wikiHow content management team closely monitors the work of our editorial board to ensure that each article is backed up by reliable research and meets our high quality standards. This article has been viewed 778,905 times. Co-authors: 70 Updated: January 15, 2020 Views: 778,905 Category: Adding and Subtracting Fraction Print Send Fan Mail to authors Thank you to all authors for creating the page, which has been read 778,905 times. In this section, you'll learn how to add fractions with different denominators. We can use one of the following methods to add fractions with as opposed to denominators. 1. Cross-multiplying method2. LCM method. The method of cross-multiplying If the denominators of fractions are co-prime or relatively simple, we should apply this method. For example, consider two fractions of 1/8 and 1/3. In the above two fractions denominators 8 and 3, there is no common division except 1. So 8 and 3 are co-primes, we need to cross-multiply multiplication add two fractions of 1/8 and 1/3, as shown below. The LCM method If the denominators of fractions are not co-prime (there is a common divisor other than 1), we should apply this method. For example, consider two fractions 5/12, 1/20. In the above two fractions denominators 12 and 20.For 12 and 20, if there is at least one common divisor except 1, then 12 and 20 are not co-prime. For 12 and 20, we have the following general divisions, except 1, 2 and 4So 12 and 20 are not co-primes. The next step is to find LCM (the least common multiple) of 12 and 20. 12 x 22 x 320 and 22 x 5 When we decompose 12 and 20 in prime numbers, we find 2, 3 and 5 as the main factors for 12 and 20. To get L.C.M 12 and 20, we must take 2, 3 and 5 with the maximum powers found above. Thus, LCM 12 and 20 is 22 x 3 x 5 x 5 60Now, make denominators of both fractions like 60 using multiplication and then add them as shown below. Solved Problems Problem 1 : Add .1/12 and 3/18Decision : These two fractions as opposed to fractions. Because they have different denominators. For 12 and 18, we have the following common divisions, except 1,2, 3 and 6So 12 and 18 are not co-prime. The next stage we have to find LCM (least common multiples) 12 and 18.LCM (12 and 18) and 36Now, make denominators of both fractions to be 36.To make the denominator will be 36, we must multiply the numerator and denominator of the first fraction by 3 and the second by 2. Then, we have 1/12 = 3/36 - 3/36 , 2/361/12 , 3/18 - (3 - 2) / 361/12 , 3/18 - 5 / 36So, The sum of the two fractions is 5/36.Problem 2 : Add : 3/20 and 7/30Decision : These are two fractions as opposed to fractions. Because they have different denominators. For 20 and 30, we have the following common divisions, except 1,2, 5 and 10So 20 and 30 are not co-prime. The next stage we have to find L.C.M (least common multiples) 20 and 30.LCM (20 and 30) 60This we have to make denominators of both fractions to be 60.To make the denominator will be 60, we must multiply the numerator and denominator of the first fraction at 3,then, and for the second fraction at 2,then, we have 3/20 = 7/30 = 9/60 , 14/603/20 = 7/30 - (9 - 14) / 603/20 7/30 No 23 / 60 So, the sum of two fractions 23/60.Problem 3 : Add : 3/7 and 2/9Decis : These two fractions as opposed to fractions. Because they have different denominators. For 7 and 9, there is no general division except 1. So 7 and 9 are co-primeHere, we have to apply a cross-multiplying method to add two fractions. To add two fractions, we have to take the next three steps. Step 1: Multiply the number of the first fraction by the denominator of the second fraction. Step 2 : Multiply the number two denominator of the first fraction. Step 3 : Multiply the denominators of the two fractions. When we do the above three steps, we will have three/7 - 2/9 - (27 - 14) / 633/7 - 2/9 - 41 / 63So, the sum of the two fractions is 41 / 63.Problem 4 : Add : 1/2 and 7/3 4/5Decis: Banners of all fractions are not the same. We have more than two fractions in this problem. If we have more than two fractions, we can only use the L.C.M. The next step is we have to find L.C.M.(the least common multiple) 2, 3 and 5.LCM (2, 3 and 5) 30That we must make denominators of all three fractions to be 30.To make the denominator will be 30, we must multiply the numerator and the denominator of the first fraction on 15, we must multiply the denominator and the denominator of the first fraction on 15, we must multiply the numerator and denominator of the first fraction by 10, and for the third fraction at 6.Then, we have 1/2, 7/3, 4/5, 15/30, 70/30, 24/301/2 4 / 301/2 - 7/3 - 4/5 - 109 / 30So, the sum of the two fractions is 109/30.Problem 5: Add : 1/9 and 7/10 - 4/9Decision : Banners of all fractions are not the same. If we have more than two fractions in this problem. If we have more than two fractions, we can only use the LCM method. The next stage we have to find LCM (least common multiples) 9, 10 and 9.LCM (9, 10 and 9) 90This we have to make denominators of all three fractions that will 90.To make the denominator will be 90, we must multiply the numerator and denominator of the first fraction by 10, for the second fraction by 9, and for the third fraction on 10.Then, we have 1/9 - 7/10, 4/9 - 10/90, 63/90 - 40/90 4/9 - (10 - 63 - 40) / 901/9 - 7/40 - 4/9, 113 / 90C. The sum of two fractions is 113/90. Sheets sheets - 1Worksheet - 2Worksheet - 3Worksheet - 4Worksheet - 5 Apart from the stuff, the data above, if you need any other stuff in math, please use our Google custom search here. If you have any feedback on our math content, please give us: v4formath@gmail.com We always appreciate your feedback. You can also visit the following web pages on various things in math. 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