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Decimals, Fractions and Percentages are just different ways of showing the same value. a Half can be written... as a fraction: 12... as a decimal: 0.5... as a percentage: 50% A Quarter can be written... as a fraction: 14... as a decimal: 0.25... as a percentage: 25% Here, have a play with it yourself. numbers/images/ani-frac-num-pct.js Here is a table of commonly used values shown in Percent, Decimal and Fraction form: Percent Decimal Fraction 1% 0.01 1/100 0.5% 0.05 1/20 10% 0.1 1/10 12% 0.125 18% 0.2 1/5 25% 0.25 1/4 33 1/3% 0.3333... 1/3 50% 0.5 1/2 75% 0.75 3/4 80% 0.8 4/5 90% 0.9 9/10 99% 0.99 99/100 100% 1 125% 1.25 5/4 150% 1.5 3/2 200% 2 To convert from percent to a decimal divide by 100 and remove the % sign. An easy way to divide by 100 is to move the decimal point 2 places to the left: From Percent To Decimal move the decimal point 2 places to the left: From Percent To Decimal move the decimal point 2 places to the left Don't forget to add the % sign! From Fraction to Decimal To convert a fraction to a decimal divide the top number by the bottom number: Divide 2 by 5: 2 ÷ 5 = 0.4 Answer: 25 = 0.4 To convert a decimal to a fraction needs a little more work. First, write down the decimal "over" the number 1:0.751Multiply top and bottom by 10 for every number afterthe decimal point (10 for 1 number, 100 for 2 numbers, and so on).In this case multiply by 10:0.75 1001 100Calculate:75100 Then Simplify the fraction: 34 To convert a fraction to a percentage divide the top number by the bottom number, then multiply the result by 100% First divide 3 by 8: 3 ÷ 8 = 0.375 Then multiply by 100%: 0.375 100% = 37.5% Answer: 38 = 37.5% To convert a percentage to a fraction, first convert to a decimal (divide by 100), then use the steps for converting decimal to fractions (like above). Start with:80%First convert to a decimal =(80/100):0.8Write down the decimal "over" the number 1:0.81Multiply top and bottom by 10 for every number afterthe decimal point (10 for 1 number, 100 for 2 numbers, and so on).In this case multiply by 10:0.8 101 100Calculate:810Then Simplify the fraction: 45 881, 1305,882, 1306,883, 1307,884, 1308,885, 1309,886, 1310 Copyright 2025 Rod Pierce Download Article Converting numbers between percents, fractions, and decimals is a necessary basic math skill. The concepts are quite simple once you learn them. Not only will knowing how to convert small numbers help you on your test, but it is also useful for financial calculations. 1Move the decimal point two places to the left to convert a percent to a decimal. Unless otherwise noted, in a percent, the decimal point comes at the end of the last number. For example, envision that 75% actually looks like 75.0%. Moving the decimal point two places to the left converts the percent to a decimal. This is the same thing as dividing the number by 100. Examples:[1]75% converts to .753.1% converts to .0310.5% converts to 0.0052Express the percent as a fraction of 100. Writing a number as a fraction of 100 is simply another way to write a percent. The number of the percent becomes the numerator of the fraction and 100 becomes the denominator. Simplify the fraction to its simplest form.2[Example: 36% turns to 36/100.]3To simplify, look for the highest number that goes into 36 and 100. In this case, that would be 4.Determine how many times 4 goes into 36 and 100. When you simplify, the answer would be 9/25.To check that youve converted correctly, divide 9 by 25 (0.36) and multiply by 100 (36%). This number should equal your original percent. Advertisement 3Remove the percent sign. Once the percent has been converted to a decimal or fraction, the % sign is no longer appropriate. 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More answers Ask a Question Advertisement Thanks Thanks Advertisement Paper and pencils standard calculator Thanks for reading our article! If you like to learn more about math, check out our in-depth interview with David Jia. This article was co-authored by David Jia. David Jia is an Academic Tutor and the Founder of LA Math Tutoring, a private tutoring company based in Los Angeles, California. With over 10 years of teaching experience, David works with students of all ages and grades in various subjects, as well as college admissions counseling and test preparation for the SAT, ACT, ISEE, and more. After attaining a perfect 800 math score and a 690 English score on the SAT, David was awarded the Dickinson Scholarship from the University of Miami, where he graduated with a Bachelors degree in Business Administration. Additionally, David has worked as an instructor for online videos for textbook companies such as Larson Texts, Big Ideas Learning, and Big Ideas Math. This article has been viewed 525,982 times. Co-authors: 98 Updated: March 10, 2025 Views:525,982 Categories: Conversion Ads PrintSend fan mail to authors Thanks to all authors Thanks to all authors for creating a page that has been read 525,982 times. "It helped me understand how to convert fractions, percent and decimals to scientific notation. What helped me the most was the given examples..." More Share your story The process of conversion to percentage from a proper fraction and an improper fraction is same.There two types of processes in converting a fraction into percent.Type 1. Denominator can be convertible to 100 using multiplication.Type 2. Denominator can not be convertible to 100 using multiplication.Type 1If denominator of the proper fraction is convertible to 100 using multiplication, we can convert the given proper fraction to percent as explained in the example above. If denominator of the proper fraction is not convertible to 100 using multiplication, we have to make the denominator as 100 using multiplication. In the fraction 3/4, the denominator is 4 which is convertible to 100 using multiplication by 4/4 = (3 * 25) = 75 / 100 = 75%Problem 2.1/30Solution :To convert any fraction to percentage, make the denominator as 100 using multiplication.In the fraction 5/8, the denominator is 8 which can not be converted into 100 using multiplication.But 8 can be converted into 100 using multiplication of 125. Then, 5/8 = 5 * 125 / (8 * 125) = 625 / 1000 = 0.625Multiply 0.625 by 100 to convert it to percentage.0.625 100 = 62.5%Problem 4 : 3/8Solution :To convert any fraction to percentage, make the denominator as 100 using multiplication.In the fraction 5/8, the denominator is 8 which can not be converted into 100 using multiplication.But 8 can be converted to 1000 using multiplication of 125. Then,5/8 = (25 * 125) / (8 * 125) = 3125 / 1000 = 3.125Multiply 3.125 by 100 to convert it to percentage.3.125 100 = 312.5%Problem 5 : A rectangular pizza is cut into 20 pieces as shown. Chilli has been put on 4 pieces.a) What fraction of the pizza does not have chilli?b) What percentage of the pizza does not have chilli?c) What percentage of the pizza has chilli?Solution :Total number of seats = 25Number of seats occupied = 10Number of seats free = 25 - 10 = 15a) Fraction of the seats are occupied = (10/25 = 2/5)b) Percentage of the seats are occupiedTo convert into percentage, we have to multiply by 100% = (2/5 * 100% = 2 * 20% = 40%)c) Percentage of the seats are unoccupied = (100 - 40%) = 60%a) Window consists of 16 panes of glass as shown. The outer 12 panes are coloured blue.a) What fraction of the window is blue?b) What percentage of the window is blue?c) What percentage of the window is not blue?Solution :a) Fraction part of window which are blue = 12Fraction of window which is blue = 12/16Divide the simplification, we get= 3/4b) Percentage of window which is blue = (3/4 * 100% = 3 * 25% = 75%)c) Percentage of window which is not blue = (100 - 75%) = 25% Kindly mail your feedback to4v4ormath@gmail.comWe always appreciate your feedback.All rights reserved. onlineMath4All.comWondering how to turn a percent into a decimal? Provided the frequency that percent occurs, it is very crucial that you understand what a percent is and how you can use percents in performing calculations. Having said that, percent simply means "per one hundred" and is represented as %. Now, to convert a percent into a decimal, you need to divide by 100. This is just similar to moving the decimal point to two places to the left.How do You Convert a Percent to a DecimalWondering how do you change a percent to a decimal? Percent to decimal conversion is not very difficult. That being said, for conversion of percent to decimal number, the percentage must be divided by 100:1% = 1 / 100 = 0.018% = 8 / 100 = 0.0810% = 10 / 100 = 0.125% = 25 / 100 = 0.2540% = 40 / 100 = 0.4050% = 50 / 100 = 0.5060% = 60 / 100 = 0.6070% = 70 / 100 = 0.7080% = 80 / 100 = 0.8090% = 90 / 100 = 0.9099% = 99 / 100 = 0.99100% = 100 / 100 = 1.00125% = 125 / 100 = 1.25150% = 150 / 100 = 1.50200% = 200 / 100 = 2.00Here is a table of commonly used values shown in Percent, Decimal and Fraction form: Percent Decimal Fraction 1% 0.01 1/100 0.5% 0.05 1/20 10% 0.1 1/10 12% 0.125 18% 0.2 1/5 25% 0.25 1/4 33 1/3% 0.3333... 1/3 50% 0.5 1/2 75% 0.75 3/4 80% 0.8 4/5 90% 0.9 9/10 99% 0.99 99/100 100% 1 125% 1.25 5/4 150% 1.5 3/2 200% 2 To convert from percent to decimal divide by 100 and remove the % sign. 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For example, 0.131313... was multiplied by 100, so the denominator is 100 - 1 = 99.The final fraction for 0.131313 is 13/99Additional Examples:0.3333... becomes 3/90.123123123... becomes 123/9990.142857142857... becomes 142857/999999if necessary, take the fraction to the lowest term. For example, 142857/999999 becomes 1/7. Advertisement 1Divide the numerator by the denominator to change the fraction to a decimal. Interpret the fraction bar to mean "divided by". This means for any fraction x/y, it is the same as saying x divided by y.[10] For example: The fraction 4/8 yields the decimal 0.5.2Determine the number of decimal points. Many numbers dont divide evenly into each other. When you divide them, you have to decide how many decimal places you want to give in your answer. Oftentimes, the standard is two places. Remember the rules of rounding when truncating a fraction: if the next number is a 5, round the previous number up. For example, 0.145 rounds to 0.15.For example: The fraction 5/17 yields the decimal 0.2941176470588The final decimal can be written simply as 0.29.3Divide the fraction and then multiply by 100 to change to a percent. Just as you did to convert the fraction to a decimal, divide the numerator by the denominator.[11] Multiply the resulting decimal by 100 and add a percent sign to finish the conversion.[12]If you had 4/8, dividing 4 by 8 would give you .50, then multiplying that number by 100 would give you 50. Adding a percent sign gives you your final answer by 50%.Additional Examples:3/10 = 0.30 * 100 = 30%5/8 = 0.625 * 100 = 62.5% Advertisement Add New Question Question How do I convert 27 over 56 into a fraction? 27 over 56 is already a fraction: 27/56. Question What is 3 and 1 over 2 as a decimal? 3 = 3.5. Question What is 62.5 as a fraction? 62.5 is the equivalent of the improper fraction 625/10, which reduces to 125/2. 125 ÷ 62.5 = 2. More answers Ask a Question Advertisement Thanks Thanks Advertisement Paper and pencils standard calculator Thanks for reading our article! If you like to learn more about math, check out our in-depth interview with David Jia. This article was co-authored by David Jia. David Jia is an Academic Tutor and the Founder of LA Math Tutoring, a private tutoring company based in Los Angeles, California. With over 10 years of teaching experience, David works with students of all ages and grades in various subjects, as well as college admissions counseling and test preparation for the SAT, ACT, ISEE, and more. After attaining a perfect 800 math score and a 690 English score on the SAT, David was awarded the Dickinson Scholarship from the University of Miami, where he graduated with a Bachelors degree in Business Administration. Additionally, David has worked as an instructor for online videos for textbook companies such as Larson Texts, Big Ideas Learning, and Big Ideas Math. This article has been viewed 525,982 times. Co-authors: 98 Updated: March 10, 2025 Views:525,982 Categories: Conversion Ads PrintSend fan mail to authors Thanks to all authors Thanks to all authors for creating a page that has been read 525,982 times. "It helped me understand how to convert fractions, percent and decimals to scientific notation. What helped me the most was the given examples..." More Share your story Understanding how to convert between fractions, decimals, and percents is a key skill in math. This is a necessary basic math skill. The concepts are quite simple once you learn them. Not only will knowing how to convert small numbers help you on your test, but it is also useful for financial calculations. 1Move the decimal point two places to the left to convert a percent to a decimal. Unless otherwise noted, in a percent, the decimal point comes at the end of the last number. For example, envision that 75% actually looks like 75.0%. Moving the decimal point two places to the left converts the percent to a decimal. This is the same thing as dividing the number by 100. Examples:[1]75% converts to .753.1% converts to .0310.5% converts to 0.0052Express the percent as a fraction of 100. Writing a number as a fraction of 100 is simply another way to write a percent. The number of the percent becomes the numerator of the fraction and 100 becomes the denominator. Simplify the fraction to its simplest form.2[Example: 36% turns to 36/100.]3To simplify, look for the highest number that goes into 36 and 100. In this case, that would be 4.Determine how many times 4 goes into 36 and 100. When you simplify, the answer would be 9/25.To check that youve converted correctly, divide 9 by 25 (0.36) and multiply by 100 (36%). This number should equal your original percent. Advertisement 3Remove the percent sign. Once the percent has been converted to a decimal or fraction, the % sign is no longer appropriate. Remember, percent just means per one hundred, so if you forget to remove the percent sign after converting, your answer will be off by one hundred.[4] Advertisement 1Multiply the decimal by 100 to change it to a percent. Another way of saying this is to move the decimal point two places to the right. A percent just means per one hundred, so the decimal becomes per one hundred after being multiplied.[5] Dont forget to add the percent sign after multiplying.[6] Examples include: 0.32 becomes 32%, 0.07 becomes 7%, 1.25 becomes 125%, 0.083 becomes 8.3%.2Convert a terminating decimal to a fraction. A terminating decimal is one that does not repeat. Move the decimal point two places to the right and divide by 100: 32/100. With a common factor of 4, the fraction simplifies to 8/25. Another example: 0.8 only has one decimal place. Move the decimal one place to the right and divide by 10: 8/10. With a common factor of 2, the fraction simplifies to 4/5.To check your work, simply divide out the fraction and make sure it equals your original decimal: 8/25 = 0.32.3Change a repeating decimal into a fraction. A repeating decimal is one that has a sequence of numbers that continually repeat. For example, if the number is 0.13131313..., there are 2 repeating decimals (13 is repeating). Determine how many repeating decimals there are and then multiply the decimal by 10n, where n is the number of repeating decimals.[8]For example, 0.131313... is multiplied by 100 (10 to the power of 2) and we get 13.131313... To determine the numerator (top number), subtract out the repeating portion of the decimal. For example, 13.131313... - 0.131313... = 13, so the numerator is 13.[9]To determine the denominator (lower number), subtract 1 from the number you multiplied with. For example, 0.131313... was multiplied by 100, so the denominator is 100 - 1 = 99.The final fraction for 0.131313 is 13/99Additional Examples:0.3333... becomes 3/90.123123123... becomes 123/9990.142857142857... becomes 142857/999999if necessary, take the fraction to the lowest term. For example, 142857/999999 becomes 1/7. Advertisement 1Divide the numerator by the denominator to change the fraction to a decimal. Interpret the fraction bar to mean "divided by". This means for any fraction x/y, it is the same as saying x divided by y.[10] For example: The fraction 4/8 yields the decimal 0.5.2Determine the number of decimal points. Many numbers dont divide evenly into each other. When you divide them, you have to decide how many decimal places you want to give in your answer. Oftentimes, the standard is two places. Remember the rules of rounding when truncating a fraction: if the next number is a 5, round the previous number up. 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