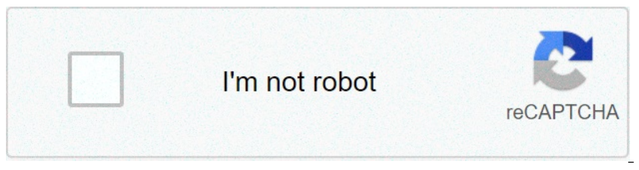

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Converting binary to decimal worksheet with answers

I wonder how to convert decimals to fractions? Or how to convert fractions to decimals? It's easier than you think! Continue reading to see the steps for fractional decimal conversions (including why you need to follow different steps if you have a repetitive decimal), fractional decimal conversion steps, a useful chart with common decimal conversions/fraction, and recommendations for rapid conversion estimate. How to Convert Decimali to Fractions How do you convert a decimal into a fraction? Decimal events, even with a complicated aspect, can be converted into a fraction; just follow some steps. Below we explain how to convert both ending decimals and decimal repetition to fractions. Converting a Terming Decimal to a Decimal A Decimal Ending Fraction is any decimal that has another finite of digits. In other words, it has an end. Examples include .5, .234, .864721, etc. The ending decimals are the most common decimals you will see and, fortunately, are also the easiest to convert to fractions. Step 1 Write the decimal divided by one. For example, say that you are given the decimal .55. The first step is to write the decimal so that it looks like ${.55}/{1}$. Step 2 Next, you want to multiply both the upper and lower part of the new fraction of 10 for each digit to the left of the decimal point. In our example, .55 has two digits after the decimal point, so we want to multiply the entire fraction of 10 x 10, or 100. Multiplication of the fraction of ${100}/{100}$we 55}/{100. Step 3 The final step is to reduce the fraction to its simplest form. The simplest form of the fraction is when the upper and lower part of the fraction are the smaller whole numbers that can be. For example, fraction 3}/{9 is not in its simplest form because it can still be reduced to 1⁄3 by dividing both the upper and lower part of the fraction of 3. The fraction 55}/{100 can be reduced by dividing both the upper and lower part of the fraction of 5, giving us 11}/{20. 11 is a first number and cannot be divided anymore, so we know that this is the fraction in its simplest form. The decimal .55 is equal to fraction 11}/{20. Example Convert .108 in a fraction. After putting the decimal on 1, we end with 108}/{1 Since .108 has three digits after the decimal place, we must multiply the entire fraction of 10 x 10, or 1000. This gives us 108}/{1000. Now we have to simplify. Since 108 and 1000 are both numbers, we know that we can divide both by 2. This gives us 54}/{500. These are still numbers, so we can divide again by 2 to get 27}/{ 250. 27 is not a factor of 250, so the fraction can not be reduced anymore. The final answer is 27}/{250. Converting a Decimal Repetent into a Fraction A decimal repetition is one that has no end. Since you can't continue writing or typing the decimal forever, they are often written as a rounded string of digits.(6666666666667) or with a bar above the repeating digit(s) $\ovFor our example, we will convert .6667 to a fraction. The decimal .6667 is $\ov {(.6)}$, .666666667, .667, etc. They are all different ways to prove that the decimal is actually a string of 6 that continues forever. Step 1 Leave x equal the repetitive decimal you are trying to convert, and identify repetitive digits (i). Then x=.6667 6 is the repetitive digit, and the end of the decimal has been rounded. Step 2 Multiply from any value of 10 you need to get the repetitive digit (s) on the left side of the decimal. For .6667, we know that 6 is the repeat figure. We want you to be on the left side of the decimal, which means moving the decimal place to a point. Then we multiply both sides of the equation for (10 x 1) or 10. 10x = 6.667 Note: You only want a “set” of repetition of digits (s) on the left side of the decimal. In this example, with 6 as the repetitive figure, you only want one 6 left of the decimal. If the decimal was 0.5858585858, you only want a set of “58” on the left side. If it helps, you can imagine all repetitive decimals with the infinity bar above them, then .6667 would be $\ov {(.6)}$. Step 3 Next we want to get an equation where the repetitive digit is only right of the decimal. Looking at x = .6667, we can see that the repeat number (6) is already right of the decimal, so we do not need to make any multiplication. We will keep this equation as x = .6667 Step 4 Now we have to solve by x using our two= .667 and 10x = 6.667. 10x - x = 6.667-.667 9x = 6 x = ${6}/{9}$ x = 2⁄3 Example Convert 1.03636363636 to a fraction. This question is a little more difficult, but we will do the same steps we have made above. First, make the decimal equal to x, and determine repetitive digits (s). x = 1.0363636 and repetitive figures are 3 and 6 Next, get repetitive figures on the left side of the decimal (new, you only want a series of repetitive figures on the left). This involves the movement of the three decimal points to the right, so both sides must be multiplied by (10 x 3) or 1000x = 1036.363636 Now you get the repetitive figures to the right of the decimal. Observing the equation x = 1.036363636, you can see that there is currently one zero between decimal and repetitive digits. The decimal must be moved to a space, so both sides must be multiplied by 10 x 1. 10x = 10.3636 Now use the two equations, 1000x = 1036.363636 and 10x = 10.363636, to solve by x. 1000x - 10x = 1036.3636 - 10.363636 990x = 1026 x = ${1026}/{990}$ Since the numberer is larger than the denominator, this is known as an irregular fraction. Sometimes you can leave the fraction as an irregular fraction, or you can be asked to convert it to a regular fraction. It is possible to do so by subtracting 990/990 from the fraction and by doing a 1 that will go next to the fraction. ${1026}/{990}$ - ${990}/{990}$=1${36}/{990}$x=1${36}/{990}${36}/{990}${990}$ may be simplified by splitting it by 18. == sync, corrected by elderman ==how to convert fractions to decimals the easiest way to convert a fraction to a decimal is only to oate the calculator. the line between the numberer and the denominator acts as a division line, so ${7}/{29}$ equals 7 divided by 29 or 241 if you do not have access to a calculator, however, you can still convert fractions to decimals using a long division or get the denominator to a multiple of 10. We explain both these methods in this section. Long division method converts ${3}/{8}$ into a decimal. Here's what looks like ${3}/{8}$ worked with a long division. 3⁄8 converted into decimal is .375 denominator as value of 10 method converts ${3}/{8}$ into a decimal. Step 1 we want the denominator, in this case 8, equal a value of 10. we can do this by multiplying the fraction of 125, giving us ${375}/{1000}$. Step 2 then we want to get the denominator equal to 1 so you can get rid of the fraction. we will divide every part of the fraction of 1000, which means to move the decimal on three places to the left. This gives us $.{375} /{1$} or just .375, which is our answer. Note that this method only works for a fraction with a denominator that can easily be multiplied to be a value of 10. However, there is a trick that you can use to estimate the value of the fractions that you cannot convert using this method. check the example below. example convert 2⁄3 to a decimal. There is no number that you can multiply 3 to make it an exact multiple of 10, but you can get close. ♪$2⁄3 from ${333}/{333}$, we get ${666}/{999}$. 999 is very close to 1000, so we act as it is actually 1000, divide every part of the fraction of 1000, and move the decimal place of 666 three places left, giving us .666 The exact decimal conversion of 2⁄3 is the decimal repetition .667, but .666 approaches us a lot. So every time you have a fraction whose denominator cannot be easily multiplied by a value of 10 (this will happen to all fractions that convert into repetitive decimals), just get the denominator as close to a multiple of 10 possible for a close estimate. Below is a graph with common decimal conversions to fractions. You do not need to store these, but knowing at least some of them from the top of the head will make it easy to make some common conversions. If you're trying to convert a decimal or fraction and you don't have a calculator, you can also see what value in this chart the number is nearest so you can make an educated estimate of the conversion. Decimal Fraction 0.03125 ${1}/{32}$ 0.0625 ${1}/{16}$ 0.1$${1}/{10}$ 0.1111 0.3$0.75$0.75$0.85$0.75$0.85$0.85$0.85$0.666${2}/0.75$ Summary: HowMaking a Decimal Fraction If you are trying to convert a decimal into fraction, you must first determine whether it is a terminal decimal (one with the end) or a repetitive decimal (one with a digit or a digit that repeats infinity). Once done this, you can follow some steps for decimal conversion to fraction and for decimal writing as fractions. If you are trying to convert a fraction to decimal, the easiest way is to use your computer. If you don't have a hand, you can use a long division or get the denominator equal to a multiple of ten, then move the decimal place of the numberer. For quick estimates of decimal conversions to fractions (or vice versa), you can look at our common conversion chart and see that it is closer to your figure to get a balpark idea of its conversion value. What's next? Do you want to know the fastest and easiest ways to convert between Fahrenheit and Celsius? We covered you! Consult our guide to convert Celsius to Fahrenheit (or vice versa).

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