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How to round up calculator

Get a Widget for this Calculator Rounding calculator to round numbers up or down to any decimal place. Choose ones to round a number to the nearest dollar. Choose hundredths to round an amount to the nearest cent. Rounding Numbers Say you wanted to round the number 838.274. Depending on which place value you'll round to, the final result will vary. Rounding 838.274: Rounding to the nearest hundred is 800 Rounding to the nearest ten is 840 Rounding to the nearest one is 838 Rounding to the nearest tenth is 838.3 Rounding to the nearest hundredth is 838.27 Basic Rules of Rounding When you "round to the nearest ____" regardless of what goes in the blank the steps are nearly always the same: Identify which place value you are rounding to. The smaller the place value, the more accurate the final result will be. Look to the next smallest place value, the digit to the right of the place value you're rounding to. For example, if you want to round to the nearest ten you'd look at the ones place. If the digit in the next smallest place value is less than five (0, 1, 2, 3, or 4), you leave the digit you want to round to as-is. Any digits after that number (including the next smallest place value you just looked at) become zeros, or drop-off if they're located after the decimal point. This is called rounding down. If the next smallest place value is greater than or equal to five (5, 6, 7, 8, or 9), you increase the value of the digit you're rounding to by one (+1). Just like before, any remaining digits before the decimal point become zeros, and any that are after the decimal point are dropped. This is called rounding up. Round to the Nearest Hundred: 3250 Identify the hundreds digit: the 2 in 3250 Identify the next smallest place value: the 5 in 3250 Is that digit greater than or equal to five? Yes, so round up. Increase the hundreds digit by one, so 2 becomes 3. Every digit after becomes a zero. 3250 rounded to the nearest hundred is 3300 Round to the Nearest Ten: 323.5 Identify the tens digit: the 2 in 323.5 Identify the next smallest place value: the 3 in 323.5 Is that digit greater than or equal to five? No, so round down. The tens digit stays the same at 2. Every digit after becomes a zero. Digits after the decimal point are dropped. 323.5 rounded to the nearest ten is 320 Round to the Nearest Ten: 499 Identify the tens digit: the first 9 in 499 Identify the next smallest place value: the second 9 in 499 Is that digit greater than or equal to five? Yes, so round up. The tens digit increases by one. Since 9+1=10, you need to carry the 1 and add it to the digit in the hundreds place. Each digit after becomes a zero. 499 rounded to the nearest ten is 500 Round to the Nearest Tenth: 0.74 Identify the tenths digit: 7 in 0.74 Identify the next smallest place value: the 4 in 0.74 Is that digit greater than or equal to five? No, so round down. The tenths digit stays the same at 7. Since the remaining digits are after the decimal point you just drop them. 0.74 rounded to the nearest tenth is 0.7 Round to the Nearest Hundredth: 3.141 Identify the hundredths digit: the 4 in 3.141 Identify the next smallest place value: the second 1 in 3.141 Is that digit greater than or equal to five? No, so round down. The hundredths digit stays the same at 4. Drop the digits to the right of 4. 3.141 rounded to the nearest hundredth is 3.14 Related Calculators To learn how to round a number to the nearest multiple see our Round to Nearest Multiple Calculator. Round to multiples of whole numbers or decimals such as tenths, hundredths, thousandths, etc. Further Reading About.com on How to Round Numbers MathPlayground: How do you Round? Math.com has several lessons on estimating and rounding. 1. How to round up the number? There is a rule for rounding up the number, if the number you are rounding is followed by the integers 5,6,7,8,9 then you need to increase the value by 1 and remove all the digits. 2. What is the best tool to round off the number up? Rounding up calculator is the best tool to round up the values and it will be available on Roundingcalculator.guru 3. What is 2.7650 rounded up number? 2.7650 round up value is 3. 4. How to use Rounding up Calculator? Simply, enter the input value in the given input fields and click on the calculate button which you will see in blue color, then you will get the answers effortlessly. Rounding calculator rounds off the number to the nearest chosen place value. Rounding numbers is the process by which a number can be simplified by converting it to a value that the number was originally closer to. What Is a Rounding Calculator? Rounding Calculator is an online tool that helps to round off the whole number to the nearest tens, hundreds, thousands, ten thousands, hundred thousands, or millions place value. Rounding off a number helps to simplify calculations by adjusting the values of the digits. To use this rounding calculator, enter the value in the input box. Rounding Calculator *Use 8 digits only. How to Use the Rounding Calculator? Follow the steps given below to use the rounding calculator to round off the number. Step 1: Go to Cuemath's online rounding calculator. Step 2: Enter the number in the input box of the rounding calculator and choose the nearest round-off place value from the drop-down list. Step 3: Click on the "Calculate" button to find the round-off value depending on the requirement. Step 4: Click on the "Reset" button to clear the fields and enter new values. How Does Rounding Calculator Works? Before rounding off a value there are certain rules that need to be adhered to. These are listed as follows: Rule 1: Any non-zero digit in a number is considered significant. Rule 2: Any zero that appears between non-zero digits is also considered significant. Rule 3: Suppose we have a whole number. The zero that is placed to the right of a non-zero digit is significant. Rule 4: If we are rounding off a digit that is less than 5, then the digit that follows is left unchanged. Rule 5: If we are rounding off a digit that is greater than or equal to 5, then the digit that follows is increased by 1. Rule 6: Suppose we are rounding off a digit that has a higher place value (hundreds, thousands, and so on) then the lower place value digits are ignored. When we round off a number, the result obtained is a less accurate value. However, it can be helpful in performing calculations where we need an estimate. Want to find complex math solutions within seconds? Use our free online calculator to solve challenging questions. With Cuemath, find solutions in simple and easy steps. Book a Free Trial Class Solved Examples on Rounding Calculator Example 1: Round off 568 to the nearest tens and verify it using the rounding calculator. Solution: To round off 568 to the nearest tens, we see that the digit at ones place is 8, which is more than 5. Therefore, we increase the tens digit by 1 and replace the ones digit by 0. Thus, 568 becomes 570. Example 2: Round off 568 to the nearest hundreds and verify it using the rounding calculator. Solution: To round off 568 to the nearest tens, we see that the digit at hundreds place is 5. We increase this value by 1 and ignore the lower digits. Thus, 568 becomes 600. Now, you can use the rounding calculator and round off the following numbers: 601 to the nearest hundreds 189 to the nearest tens 5271 to the nearest ones ☛ Math Calculators: This rounding numbers calculator can be used to decrease the precision of a number to make it shorter, simpler and/or easier to grasp when you perform further operations on it. It's often the case you don't need an exact number (such as 3324.238576) and would happily settle for 3324.34, 3324 or even 3300; this rounding decimals calculator will let you do just that. Simply enter a number and pick the desired precision from the list. If this isn't for you, you may pick a rounding mode. Depending on the situation, you will want this rounding algorithm to behave appropriately. Sometimes you want to round everything up (2.1 would be rounded to 3). Sometimes you want exact halves to be rounded up in half of the cases and down in the other half, in order to for a higher chance of an average staying close to the truth. Here's the description of all modes, we'll round to the nearest whole number. up - rounds away from zero. 3.2 and 3.6 become 4, but -3.2 and -3.6 become -4. down - rounds towards zero. The above numbers become 3 and -3 respectively. ceil - rounds towards the larger number. It differs from rounding up by the way it handles negative numbers. Both -3.2 and -3.6 become -3. floor - it rounds towards the smaller number. Similarly, negative numbers go the opposite way than in the case of rounding down. -3.2 becomes -4. This principle is what our modulo calculator is based on. half up (default) - rounds towards the nearest neighbor. If equidistant, it rounds away from zero (just like in the up mode). For example, 3.5 becomes 4 and -3.5 becomes -4. This is how rounding is usually performed. half down - similarly to half up, it rounds to the nearest neighbor, unless it's equidistant - then it rounds towards zero (just like in the down mode). The above numbers become 3 and -3 respectively. half even - an interesting one. Rounds towards the nearest neighbor, but if equidistant, it rounds towards the even number. Both 1.5 and 2.5 are rounded to 2. 3.5 and 4.5 are rounded to 4. It prevents cumulative rounding errors and this is why it's often used in science (we use it as a default mode in our sig fig calculator. If you'd round up all the time, the average is too high... this is why we round up half the time. The same rule (for the same reason) is used in accounting. When you want to round to the nearest cent, just use the half even mode. half ceil - the nearest neighbor, equidistant values go towards the larger number. half floor - the nearest neighbor, equidistant towards the smaller number. If all this text sounds daunting here is a quick table where you can check and understand all the rounding modes available in the calculator as well as some extras as a bonus. Credit where credit is due: this table has been taken from a very entertaining post on rounding algorithms by Max Maxfield, a recommended read.

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