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Rounding decimals worksheets year 7

Sheets on expansion supports, finding the rule, converting fractions/decimals/percentage and operations with decimals and fractions. Good drill and test sheets. Read moreReport a problem One way we may be asked to round a number is for a certain number of decimal places (d.p.). Example: Round 3.6874 to 2 decimal places. Step 1: Determine the cutoff point. Here, this is the second decimal place. The cutoff point is after the 8 and before the 7. Step 2: Look at the first digit after the cutoff point. Here's 7. If it is below 5, then we keep the cut-off digit (i.e. the number before the cutoff point) the same. If it's 5 or more, then we round the cut digit. Here, 7 is more than 5, so we round the cut digit, 8, up to 9. Step 3: All digits after the cutoff point we ignore. So 3.6874 rounded to 2 decimal places is 3.69 Another way we can be asked to round a number is for a certain number of significant numbers (sf). The first significant figure of a number is the first digit that is not a 0. The next significant numbers immediately follow, and so on... Example: Round 0.04529 to 2 significant numbers. Step 1: Determine the cutoff point. Here's after the second significant figure. The 1st significant number is 4, because the first 2 digits are zeros. The second significant number is 5. The cutoff point is between 5 and 2. Step 2: Look at the first digit after the cutoff point. Here's two. If it is below 5, then we keep the cut digit the same. If it's 5 or more, then we round the cut digit. Here, 2 is less than 5, so we keep the cut digit, 5, the same. Step 3: All digits after the cutoff point we ignore. So 0.04529 rounded to 2 significant numbers is 0.045 Finally, we may be asked to round a number to the nearest integer, 10, 100 etc. This is easier than for decimal places and significant numbers. We use the same method, but if it asks to round to the nearest 10, for example, then our cut digit will be the digit in the tens column. Example: Round 112 for the next ten Step 1: Identify the digit of tens, here will be the second 1 1\overset{\downarrow}{1}2 Step 2: Look at the digit after the column of tens. Here is 2 If it's below 5, then we keep the cut digit the same. If it's 5 or more, then we round the cut digit. Here, 2 is less than 5, so we don't round. Step 3: All digits after the cut digit turn into 0's. This gives the final answer to be: 110 For each of the 3 rounding shapes, if we are required to round a 9, then we round the 9 to a 0 and increase the digit before it by 1 (take the 1 to the left). Example: Round 4,398 to 2 decimal places. The second digit after the decimal point, the 9, is our cutoff digit. The digit is an 8, so we have to round the cut digit. The problem is that increasing a 9 by 1 makes 10, so what do we do? The cut digit becomes zero, and the digit before being increased by 1. So in this case, the 9 goes to zero and and 3 before it becomes 4. So ignoring all the digits after the cutoff point, we have 4,398 rounded to 2 decimal places is 4.40 Round 235 for the nearest ten. [1 mark] The first digit, 2, is in hundreds, but the second digit, 3, is in tens, so that will be our cut-off digit. Now we look at the digit after that: it's a 5, which means we round up, i.e. the cut digit is increased by 1, so in this case the 3 will become a 4. Finally, ignoring all digits after the cutoff point, we have that 235 rounded to the nearest 10 is 240 Round 13,746 to 2 decimal places. [1 brands] If we are rounding to 2 decimal places, then the cut-off digit is before the 2nd decimal place, that is, the second number after the decimal point. In this case, this is 4. The digit after the 4 is a 6, which means that we round and increase the cut digit by 1 so that the 4 becomes a 5, giving us 13,746 rounded to 2 decimal places is 13.75 Round 8,529 to 2 significant numbers. [1 mark] The 1st significant number is 8, the 2nd is 5. 5 is our cutting digit. The digit after the 5 is a 2. This is less than 5, so we round it down and the cut digit remains the same. So by turning all digits after the cut digit into 0's, we have 8,529 rounded to 2 significant numbers is 8,500. Round 0.00589 to 2 significant numbers. [1 mark] The first non-zero term is 5, so this is our first significant number. 8, it is our second significant figure and therefore is our cutting digit. The digit after the 8 is a 9, which is greater than 5, and so we round up, increasing the cut digit by 1, making the 8 in a 9. So ignoring all the digits after the cutoff point, we get 0.00589 rounded to 2 significant numbers is 0.0059 Here, we are rounding to the nearest thousand so it is the third digit we are interested in, 560,180 To round up or down we have to consider the digit value for its immediate right which in this case is 1. Because 1 is less than 5, we round down and so the zero remains the same and we do the rest of the zero digits, 560,180 rounded to the nearest thousand is 560,000 Here, we are rounding to 1 decimal place so it is the 1st digit after the decimal point we are interested in, 97.96 To round up or down we have to consider the digit value for its immediate right which in this case is 6. Because 6 is greater than 5, we round. However, as we are rounding from 9 to 10, we have to take the 1 to the units column, so we have, 97.96 rounded to 1 decimal place is 98.0 Here, we are rounding to 3 significant numbers so it is the first non-zero digit and the two digits that follow it we are interested, 0.02345 The 1st significant number in this case is 2 and moving two places along we see that the 4 is the 3rd number that we are interested in, 0.02345 The 1st significant number in this case is 2 and moving two places along we see that the 4 is the 3rd number that we are interested in, 0.02345 The 1st significant number in this case is 2 and moving two places along we see that the 4 is the 3rd number we are interested in, 0.02345 The 1st significant number in this case is 2 and moving two places along we see that the 4 is the 3rd number that follows it that we are interested in, 0.02345 The 1st significant number in this case is 2 and moving two places along we see that the 4 is the 3rd number we are interested in, 0.02345 The 1st significant number in this case is 2 and moving two places along we see that the 4 th is the 3rd number we are interested in, 0.02345 The 1 To round up or down we have to consider the digit value for its immediate right which in this case is 5, then we round up, 0.02345 rounded to 3 significant numbers is 0.0235 Here, we are rounding to 3 significant numbers so it's the first one digit and the two digits that follow it that we are interested, 1.0093 The 1st significant number in this case is 1 and moving two places along we see that the 0 is the 3rd significant number. To round up or down we have to consider the digit value for your immediate right that, in this case it is 9, so we round, 1.0093 rounded to 3 significant numbers is 1.01 Here, we are rounding to 2 decimal places so it is the 2nd digit after the decimal point we are interested, 55.099 To round up or down we have to consider the digit value of the digit for its immediate right which in this case is 9. Since 9 is greater than 5, we round. However, as we are rounding from 9 to 10, we have to take the 1 to the units column, so we have, 55,099 rounded to 2 decimal places is 55.10 Try a review card on this topic. A worksheet that requires students to round decimals. Published by Teach Starter Publishing We create premium and downloadable teaching resources for elementary/elementary school teachers who make classrooms buzz! ReviewsChanges & UpdatesChangesReports an errorErrorsHelpWrite a review to help other teachers and parents like you. If you want to request a change (Changes & Updates) for this feature or report an error, simply select the corresponding tab above. Sign in or sign in to join the conversation. You must be logged in to report an error. Sign up now! Are you a fifth grader? Does working with a long chain of decimals scare you? So learn this essential ability to round decimals. Incorporated here are printable rounding decimals that contain worksheets for 5th and 6th graders, to round decimals in a number line, rounding decimals to the nearest integer, tenths, hundredths, or thousandths, word problems, and more. Check out some of these spreadsheets for free! Round Up or Round Down Implement these grade 5 printable worksheets to round or round the decimals to the nearest integer, tenths, hundredths, and thousandths. Circle the Decimals find the decimals that round up or down to the specified integer or decimal place values and circle them. Rounding to the Nearest Whole Number Round each decimal to the nearest integer. Do simple calculations by rounding if the value is greater than or equal to 5 and round down if it is less than 5. Rounding to the Nearest Tenth Note the digit in the hundredth place to round the decimal to the nearest tenth in these 5th year decimal rounding worksheets. Apply the concept of rounding decimals to real-life word problems. Rounding to the Nearest Thousandth Recognize the digit in the 10 thousandth place and round it to the thousandth more Reiterate the concept of rounding decimals with these grade 6 worksheets consisting of drills and word problems. Decimal Rounding: Mixed Review | Type 1 Review your rounding skills with this practice feature! Round up or round each decimal to one and two decimal places, decimals, to the nearest integer as directed, and evaluate yourself! Decimal Rounding: Mixed Review | Type 2 Reiterates round decimals to the nearest, nearest tenth, and hundredth closest integer with these printable revision worksheets. The tabular format facilitates the comparison of the three rounded values and an easy understanding of the theme eventually. Rounding decimals to The Underscore Place Value Review The concept of rounding decimals in this set of 6th grade PDF worksheets. Examine the underlined digit, identify its location value, and then round the decimals to the required value of the location. Rounding Decimals: Boxes in & out A fun way to recap rounding decimals is featured here. Each inbox and output comes with a rule, apply the rule to round each decimal in the box to the specified location value. Rounding decimals using numeric lines The best possible way to learn rounding decimals is to use the numeric line tool. These include worksheets with rows in one that are gathered to practice rounding decimals to the nearest integer, tenths, or hundredths. (25 Spreadsheets) Decimal Rounding: Significant Figures Take this variety of significant rounding figure worksheets to increase your understanding with skills such as rounding to one, two, and three significant numbers, rounding up to five significant numbers, rounding significant numbers involving aritmetic operations and more. (18 Spreadsheets) Spreadsheets)

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