

Rounding Decimals 2

Rounding decimals is similar to rounding other numbers. First find out to what 'decimal place' (place value column) the decimal is to be rounded. Next underline the digit to the right of this. When you have finished rounding, all the digits including and after the underlined one will become 0. Remember that if the digit on the right is 0,1,2,3,4, the rounded digit remains the same value; if the digit on the right is 5,6,7,8,9 the rounded digit increases by one.

Example: Round 2.99 to the nearest tenth

In this number the 3 is in the tenths column so we look at the digit on its right...

$2.99 = 2.9\text{9}$ We know that 9 rounds up but we can't round up as we already have a 9. What do we do? Think of it in the same way as carrying over in addition. The 9 becomes 0 and add 1 to the next column across on the left

$2.99 = 3.00$. Our final answer is 3.00 or 3

Now try these using the same method

1. Round these numbers to the nearest tenth:

a) 5.97 rounds to _____

b) 4.91 rounds to _____

c) 9.95 rounds to _____

d) 6.97 rounds to _____

e) 12.93 rounds to _____

f) 52.95 rounds to _____

g) 16.93 rounds to _____

h) 45.97 rounds to _____

i) 601.92 rounds to _____

j) 5.95 rounds to _____

Now round these numbers to the nearest hundredth

a) 5.492 rounds to _____

b) 43.791 rounds to _____

c) 62.395 rounds to _____

d) 7.998 rounds to _____

e) 2.399 rounds to _____

f) 12.696 rounds to _____

g) 402.793 rounds to _____

h) 29.790 rounds to _____

i) 4.897 rounds to _____

j) 56.595 rounds to _____

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Example: Round 2.99 to the nearest tenth

In this number the 3 is in the tenths column so we look at the digit on its right...

$2.99 = 2.9\text{\underline{9}}$ We know that 9 rounds up but we can't round up as we already have a 9. What do we do? Think of it in the same way as carrying over in addition. The 9 becomes 0 and add 1 to the next column across on the left

$2.9\text{\underline{9}} = 3.00$. Our final answer is 3.00 or 3

Now try these using the same method

1. Round these numbers to the nearest tenth:

- a) 5.97 rounds to 6
- b) 4.91 rounds to 4.90
- c) 9.95 rounds to 10
- d) 6.97 rounds to 7
- e) 12.93 rounds to 12.90
- f) 52.95 rounds to 53
- g) 16.93 rounds to 16.90
- h) 45.97 rounds to 46

i) 601.92 rounds to 601.90

j) 5.95 rounds to 6

Now round these numbers to the nearest hundredth

a) 5.492 rounds to 5.490

b) 43.791 rounds to 43.790

c) 62.395 rounds to 62.40

d) 7.998 rounds to 8

e) 2.399 rounds to 2.40

f) 12.696 rounds to 12.70

g) 402.793 rounds to 402.790

h) 29.790 rounds to 29.790

i) 4.897 rounds to 5

j) 56.595 rounds to 56.60