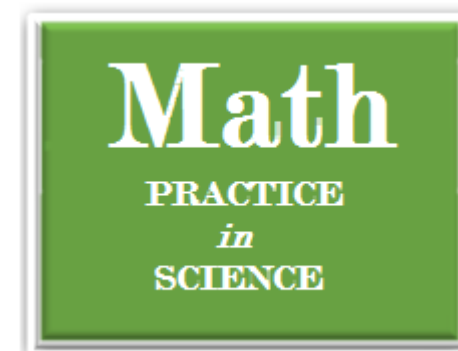


047 Math Practice

Translating Written Decimals



If you have to change word decimals back into number form, it's very important to remember the place values those decimals have. Since there is no way to say *zero* when you read or write decimals, the only way you can let others know it is there is by indicating the place value of the last digit.

Example: Write the decimal numeral for the word name "seven and two hundred fifty-six ten-thousandths."

Step 1: Write the numbers as you hear them.

7.256

Step 2: Count the places in your number. Is the last place name the same as in the word form?

No, 6 is in the thousandths place.

Step 3: Insert zeros to put numbers in correct place value. Place the zeros to the right of the decimal point. Now, 6 is the ten-thousandths place.

7.0256

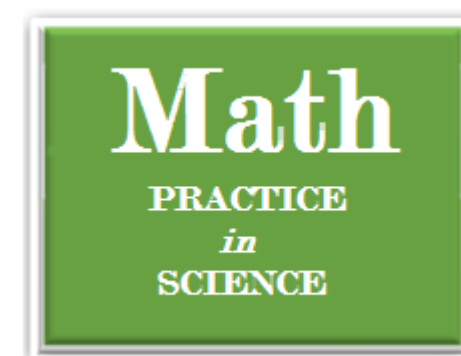
Other Examples: Nine and eight hundredths = 9.08
Sixty-three ten-thousandths = 0.0063 or .0063

Write the decimal numerals for these word names.

1. six and twenty-four hundredths _____
2. sixteen and sixteen thousandths _____
3. twelve hundredths _____
4. five hundred and nine hundredths _____
5. two hundred and three ten-thousandths _____
6. fifty-six and four hundred eleven ten-thousandths _____
7. three hundred forty-one hundred-thousandths _____
8. sixty and twelve hundred-thousandths _____
9. nine thousandths _____
10. seven thousand forty-five ten-thousandths _____
11. thirteen hundredths _____
12. fifteen and eighteen hundred-thousandths _____
13. nine and eight hundred-thousandths _____
14. nine and eight ten-thousandths _____
15. fifty-two hundredths _____
16. seventy-five thousandths _____

048 Math Practice

Comparing Decimals



It is easy to compare decimals just by lining them up vertically.

Example: Compare 0.063 and 0.0198, using $<$, $>$, or $=$.

Step 1: Write one number over the other with the decimal points in a vertical line.

0.063
0.0198

Step 2: Insert zeros in the spaces.

0.0630
0.0198

Step 3: Ignore the decimal points and the zeros on the left.

630

Step 4: Since $198 < 630$, $0.0198 < 0.063$

198

If there is a whole number before the decimal, it must be considered first, before you work with the decimals.

Example: $2.1 > 1.985$, because $2 > 1$.

Note: The symbols $>$ and $<$ will always point to the smaller number.

Use one of these symbols, $<$ or $>$, for each pair of numbers.

1. 1.06 1.007

2. 5.17 2.298

3. 0.8 0.19

4. 3.1 0.325

5. 5.0 0.51

6. 4.12 4.034

7. 5.015 .1006

8. 2.54 .225

9. 5.012 5.120

10. 106.2 50.7

11. 1010.11 1.111

12. 0.0234 0.222

13. 7.1 .85

14. .340 1.67

15. 92.341 92.049

Arrange these decimals from greatest to least.

16. 0.162, 0.1073, 1.7

17. 5.551, 5.6, 4.823

18. 0.704, 7.03, 0.0703

19. 1.7, 17, .701

20. 0.51, 1.5, 0.502

21. 0.8018, 0.8081, .808

22. 0.6602, .7714, .67

23. 8.8, 8.088, 8
