

Name: _____

More Decimals

When working with decimal numbers, you must pay particular (extra special) attention to the decimal point.

The digits *before* (to the left of) the decimal point have whole number values (ones, tens, hundreds, etc.).

The digits *after* (to the right of) the decimal point have fractional values (tenths, hundredths, thousandths, etc.).

However, no matter which place you're at (whether before, or after, the decimal point) the value of the place directly to your **left** will be 10 times the value of the place you're at.

If you move two places to the **left**, the place value there will be 100 times the value of the place you started from. And so forth.

REMEMBER: The value of any digit in a decimal number—just like the value of a digit in a whole number—will be equal to the face value of the digit times its place value.

1. What is the value of the bold digit **3** in the number **343**? _____

What is the value of the underlined digit 3? _____

The value of the bold **3** is _____ times the value of the underlined 3.
Why? — Because $300 = 100 \times 3$.

2. What is the value of the bold **3** in the number **3.43**? _____

What is the value of the underlined 3? _____

The value of the bold **3** is _____ times the value of the underlined 3.
Why?

3. What is the value of the bold digit **2** in the number **5.22**? _____

What is the value of the underlined 2? _____

The value of the bold **2** is _____ times the value of the underlined 2?
Why?

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4. Compare these decimal numbers using the symbols $\{<, >, =\}$:

(You can change the decimals to fractions if it helps.)

$.5 \underline{\hspace{1cm}} .09$

$.08 \underline{\hspace{1cm}} .8$

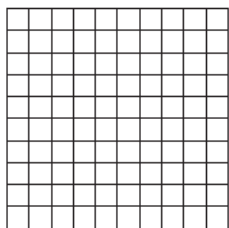
$1.0 \underline{\hspace{1cm}} 0.9$

$.06 \underline{\hspace{1cm}} .1$

$23.1 \underline{\hspace{1cm}} 21.07$

$.7 \underline{\hspace{1cm}} 1.7$

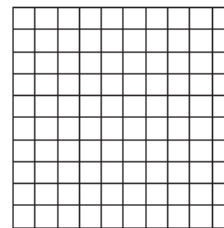
5. Each large square below is divided into 100 equal parts.



←Shade in **.4** of the square on the left.

Shade in **.04** of the square on the right→

$.4 = \underline{\hspace{1cm}} \times .04$



6. Compare using the symbols $\{<, >, =\}$:

$11/5 \underline{\hspace{1cm}} 2.3$

$7/10 \underline{\hspace{1cm}} .71$

$40/100 \underline{\hspace{1cm}} 0.4$

1. In the number $24\mathbf{6}.\underline{6}5$, the value of the bold **6** is _____ times the value of the underlined 6.

In the number $2\mathbf{6}7.\underline{6}9$, the value of the bold **6** is _____ times the value of the underlined 6.

In the number $20\mathbf{6}.\underline{06}$, the value of the bold **6** is _____ times the value of the underlined 6.