**CHANGING A PERCENT TO A FRACTION**

Since percent means “out of 100”, your first step is to represent the percent as a fraction with a denominator of 100.

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| **Example #1**  37% **=** | **Example #2**  23% = | **Example #3**  121 % = | **Example #4**  7 % = |

**CHANGING A DECIMAL TO A FRACTION**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| THOUSDANDS | HUNDREDS | TENS | ONES | **.** | TENTHS | HUNDREDTHS | THOUSANDTHS | TEN  THOUSANDTHS |

* Look at the **LAST DIGIT** in the decimal and determine the **place value** of that number.
* That place value becomes your **DENOMINATOR.**
* **REDUCE** your fractions to lowest terms when necessary.

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| **Example #1:**  0.7 =  The 7 is in the \_\_\_\_\_\_\_\_\_\_\_ place. | **Example #2:**  0.03 =  The 8 is in the \_\_\_\_\_\_\_\_\_\_place. This fraction has also been reduced to lowest terms. | **Example #3:**  1.003 =  This decimal has a whole number, so it must be kept with the mixed number. The 3 is in the \_\_\_\_\_\_\_\_\_\_\_\_ place. |

**CHANGING A FRACTION TO A PERCENT**

Remember, the word **“percent”** means “***out of 100***”. To properly change a fraction into a percent, you need to make sure your fraction has a denominator of 100.

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| **Example #1:**    The denominator is already 100, so you can simply make it \_\_\_\_\_\_\_. | **Example #2:**    The denominator is a factor of 100, so you must create an equivalent fraction to make it out of 100. Your percent will be \_\_\_\_\_\_ | **Example #3:**    Again, the denominator is a factor of 100, so you must create an equivalent fraction to make it out of 100. Your percent will be *\_\_\_\_\_\_\_* | **Example #4**    If your fraction is improper, you can still represent it as a percent, as long as the denominator is 100. Your percent will be \_\_\_\_\_\_\_\_\_ |
| **Example #5**  Sometimes your denominator is NOT 100 or a factor of 100. If that is the case, **USE YOUR CALCULATOR ☺**  14  22 | | **Example #6**  37  52 | |

**CHANGING A DECIMAL TO A PERCENT:**

* Multiply the decimal by 100 (move the decimal TWO PLACES TO THE RIGHT 🡪)
* ***OR…***
* Change the decimal to a fraction.
* Make an equivalent fraction with a denominator of 100.
* Express this fraction as a percent.

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| **EXAMPLE #1:**  **0.7** = | **EXAMPLE #2**  **0.08** = | **EXAMPLE #3:**  **1.19** = |