Topic 6 Review Notes:

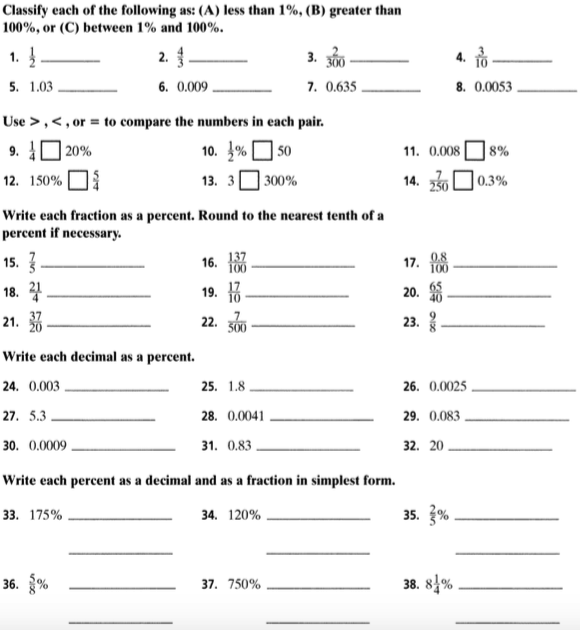
6.1 – 6.2 Terminating, Repeating, and Non-Repeating Decimals

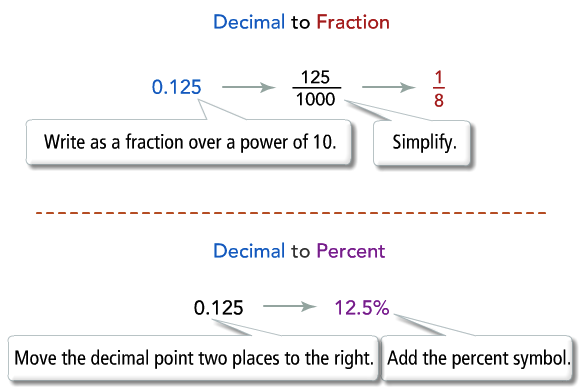
|  |  |  |
| --- | --- | --- |
| *Terminating*   * **A decimal that ENDS** (Think about how an “exterminator” ENDS the bugs) * **Example: 0.2346** | *Repeating*   * **Repeats the same block** of numbers forever * **Example: 0.45454545…** | *Non-Repeating*   * **Never repeats and goes on forever** * **0.15262847492…** |
| *Long Division*   * **“Top dog in the house”** * Top number of the fraction goes under the long division house. * Bottom number in fraction goes on the outside of the house. * **Example:** | |

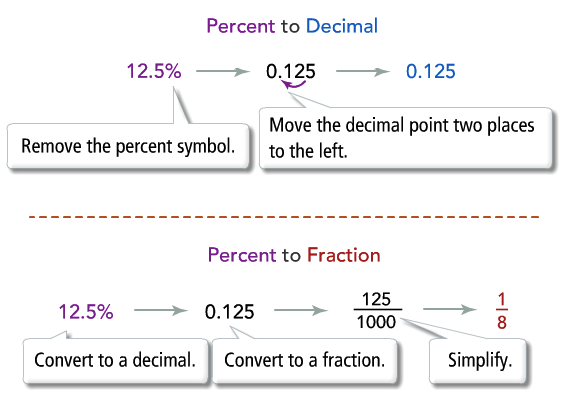
6.3 – 6.4 Percents Greater than 100 and Less than 1

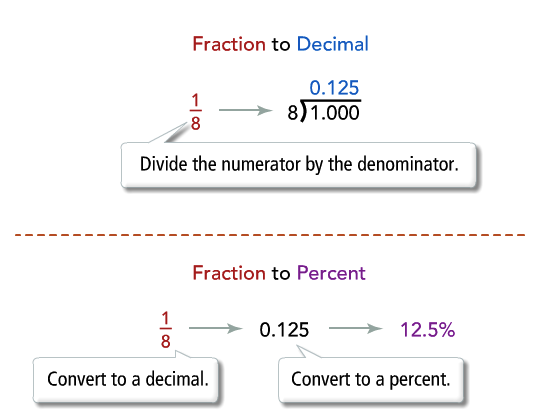
|  |  |
| --- | --- |
| *Greater than 100*   * **150%** * This is usually a comparison of the old and the new. For example, the old item might be 100% where the new item might have increased to 300%, or 3 times as much. * **Example:** On Monday, Miss Mampre drove 20 miles. Over the weekend, she took a road trip and drove 80 miles. She drove \_\_\_\_\_% miles over the weeknd than Monday. * **20 🡪 80 = x4** * **So 100 x 4 = 400%** | *Less than 1*   * **A fraction of a percent (NOT EVEN A WHOLE PERCENT!)** * This is usually all about conversions, really understanding what a fraction of a percent is. * **Example**: What percent is 12 of 3000?   Is over of = percent over 100   * 12/3000 = x/100 so x = 0.4% * Write 0.78% as a fraction and a decimal. * **78/100% 0.78% / 100 = 0.0078** |

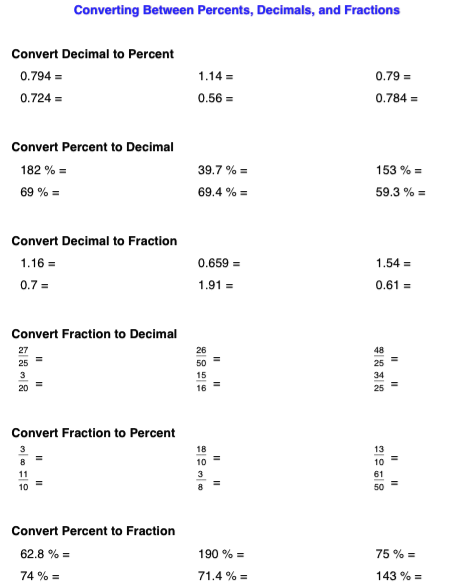
6.3 – 6.4 Percents Greater than 100 and Less than 1 PRACTICE



6.5 Converting between fraction, decimals, percents:







6.6 Percent Error

Finding the percentage of how far off your estimate is off of from the actual.

The closer to zero the better your estimate is.

There never is 100% error.

FORMULA:

Percent Error = |Actual – Estimated| x100

Actual

**BE SURE YOU TAKE THE ABSOLUTE VAULE!**



Actualy: 80

Estimate: 75 (Even though he “actually” read it from the thermometer, it was still a tool to estimate. The scientific answer is the actual value.)

Percent error = | 75 – 80 | x 100 | -5 | x 100 5 x 100 = 6.7% error

75 75 75