Grade: 7 Math **Mastery Check #2**

Benchmark #: 7.2.2.K7 (Ratios, Proportions, Percent conversions)

State Language: Knows the mathematical relationship between ratios, proportions, and percents and how to solve for a missing term in a proportion with positive rational number solutions and monomials.	**Student Friendly Language: Students understand and are able to set up and solve proportions . (conversions of fractions, decimals and percents)**	
Concept (Students will know): • how to do all conversions of fractions, decimals and percents • The definitions of ratio and proportion • How to write a ratio	**Skills** (Students will do): • Set up a proportion and solve for the missing term (variable). • Find the relationship between the variable and number on the same level of a proportion **Example**: $\frac{6}{8} = \frac{x}{4}$ The relationship between 6 and x is: x is equal to one-half of 6	**DOK Level:** **2**

Big Ideas:

Students are able to recognize what types of real-life problems can be solved by using a proportion. (Students must be able to set up and solve the proportion)

Essential Questions:

1. What is a ratio? Give a real-life example of a ratio.
2. When, in real life, might you need to set up and solve a proportion?
3. What is the difference between a ratio and a proportion?

Core Materials **Text Book**	**Supplemental Materials:** **Glencoe Resource workbooks**

Teaching Strategies:

Guided practice

Real-life examples

Mastery Check Items: