STEM Accelerated Algebra I Unit 1 Study Guide 1. Know the components of the Real Number System. Be able to draw diagram that shows all the subcomponents of the Real Number System [1.1]

- 2. Understand the difference between rational numbers and irrational numbers. [1.1]
- 3. Know the 4 cases involving operations that combine rational numbers and irrational numbers. Also, be able to describe or explain why using these cases. [1.1]
- 4. Be able to convert radicals into exponential forms (and vice versa) [1.2] 5. Be able to simplify radicals to their simpliest form. [1.2]
- 6. Know how to set up a ratio correct using the 3 different forms. In addition, be able to Simplify ratios to their simpliest form. [1.3]
- 7. Beable to solve proportions from given rates. [1.3]
- 8. Understand how to use ratios to answer certain questions like finding the total. [1.3]
- 9. Be able to convert from one unit to another by dimensional analysis [2.4]
- 10. Know the different synonyms for operations such as addition, etc. [1.9]
- 11. Be able to use variables to create equations from words [1.5]
- 12. Be able to solve simple linear equations in order to find the unknown. [1.5]

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