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| **Content: Solving Linear Inequalities and Graphing Solutions** | | | |
| Solves inequalities of the form and represents solutions on a number line    “I know that this means that *n* is greater than or equal to 5, so any value that is 5 or greater is a solution.” | Solves one-step inequalities and represents solutions on a number line  “To solve *n* + 5 ≥ 10, I can subtract 5 from both sides to get *n* ≥ 5.” | Solves and graphs multi-step inequalities with rational numbers, including inequalities that require multiplying or dividing by –1, and verifies solutions  “To solve I can subtract 5 from both sides to get . Then I can divide both sides by –2, which means I need to reverse the inequality. ” | Writes and solves multi-step inequalities to represent real-world problems and interprets solution within the context  “If the price of two burgers is more than $15.50, I can represent it with the inequality , which has a solution of c. This means that each burger costs at least $7.75.” |
| **Observations/Documentation** | | | |
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| **Competency: Communicating & Representing** | | | |
| Describes the solution of an inequality orally  “The solution can be any number under 8, but it can’t be 8.” | Represents the solution of an inequality using symbols and words  “  I know that when *x* = 8, *x* + 4 = 12. So, *x* can be any number less than 8. I would write the solution as *x* < 8.” | Represents solution of an inequality using words, symbols, and graphs  “The solution is *x* < 8, which is any number less than 8. I can graph the solution on a number line, with an open circle at 8 and an arrow to the left.” | Represents the solution of an inequality in a variety of ways and includes justification and/or proof  “To keep the inequality true, when I divided both sides by –3, I reversed the inequality sign. I checked the solution by choosing a number in the solution set and substituting it into the original inequality. The inequality was still true, so I knew my solution was correct.” |
| **Observations/Documentation** | | | |
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