**Chapter Nine Outcomes: Linear Inequalities**

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| **Lesson Goals**  *Place a checkmark in the box that best describes your work.* | **Yes, on my own** | **Yes, with help** | **Sometimes/ Not sure** | **Not yet** |
| 1. **I can represent linear inequalities.** |  |  |  |  |
| 1. I can determine if a number given is a possible solution of a linear inequality. |  |  |  |  |
| 1. **I can solve single-step linear inequalities.** |  |  |  |  |
| 1. I can solve problems involving linear inequalities. |  |  |  |  |
| 1. **I can solve multi-step linear inequalities.** |  |  |  |  |
| 1. I can compare and explain the processes for solving linear equations and linear inequalities. |  |  |  |  |
| 1. **I can graph the solution of a given linear inequality on a number line.** |  |  |  |  |

**Chapter Nine: Linear Inequalities**

**Outcome 1:** **I can represent linear inequalities.**

Examples: Pg.342 Example 1; Pg.345 Example 3

Basic Questions:Pg.346 #3; Pg.347 #5,7,9,10,15; Pg.348 #16,18,20,21

Advanced Questions: Pg.349 #24; Pg.367 #20

**Outcome 2:** I can determine if a number given is a possible solution of a linear inequality.

Examples:Pg.353 Example 2

Basic Questions: Pg.357 #9-13; Pg.365 #5,6

**Outcome 3: I can solve single-step linear inequalities.**

Examples: Pg.352 Example 1

Basic Questions:Pg.347 #4; Pg.356 #1; Pg.357 #5-8; Pg.358 #17

Advanced Questions: Pg.359 #24,25,27,28

**Outcome 4**: I can solve problems involving linear inequalities.

Examples: Pg.355 Example 3; Pg.363 Example 2

Basic Questions: Pg.348 #19; Pg.358 #14,15, 18-21; Pg.359 #22 ; Pg.365 #8; Pg.366 #9,11-14; Pg.367 #15,16

Advanced Questions: Pg.359 #23,26; Pg.367 #19

**Outcome 5: I can solve multi-step linear inequalities.**

Examples: Pg.361 Example 1

Basic Questions: Pg.365 #2-4,7; Pg.366 #10

Advanced Questions: Pg.367 #17,18,21,22

**Outcome 6:** I can compare and explain the processes for solving linear equations and linear inequalities.

Basic Questions: Pg.356 #2; Pg.357 #4; Pg.365 #1

**Outcome 7: I can graph the solution of a given linear inequality on a number line.**

Examples: Pg.343 Example 2

Basic Questions: Pg.346 #2; Pg.347 #4,11-14; Pg.348 #17,22

Advanced Questions: Pg.349 #23,25

**Chapter Nine Vocabulary**

|  |  |
| --- | --- |
| **Term** | **Definition** |
| Inequality |  |
| Boundary point |  |
| Open circle |  |
| Closed circle |  |
| Double inequality |  |
| Solution of an inequality |  |