

Name \_\_\_\_\_

## Unlocking Inequality Puzzles: A Guide to Solving Inequalities

### Short Answer Key

1. Inequalities are used to express relationships between quantities where one value is greater than, less than, greater than or equal to, or less than or equal to another value.
2. An equation expresses equality between quantities, while an inequality expresses a comparison between quantities using symbols such as  $>$ ,  $<$ ,  $\geq$ , or  $\leq$ .
3. Example:  $2x + 3 > 9$ . Solution:  $x > 3$ .
4. It is important to use the correct strategies when solving inequalities to ensure an accurate solution and maintain the correct direction of the inequality sign.
5. Graphical representation can help in understanding inequalities by visualizing them on a number line and identifying solution intervals.

