

Solving Inequalities: Tips

- **Always look at the inequality symbol.**
 - It is important to pay attention to the inequality symbols because you **need to know which direction to graph the inequality.**
 - It is also important to pay attention to the inequality symbol **when multiplying or dividing by a negative number. (The inequality sign flips!)**
- **Think of solving inequalities like solving equations.**
 - Inequalities are just like solving equations, but with different symbols instead of the equals sign.
 - **It is easiest to solve an inequality like an equation with the inequality sign replaced with an equal sign, then change the equal sign to the appropriate inequality sign (based on the operations performed while solving) in the final answer.**
- **Be aware of set notation.**
 - Set notation **will be used for the rest of your algebra based math classes.**
 - You need to know how it is written and what different forms of it are.
 - **Make sure you are comfortable writing in various set notations by the end of studying this chapter!**