## **Possible Solutions**

$$9\frac{1}{2} > x + 6$$

Is 3.5 a possible solution to this inequality? Why or why not? Justify your thinking.

• When students are given an inequality, they will substitute the value into the inequality like so:

$$9\frac{1}{2} > 3.5 + 6$$

• Next, students will solve to see if this is true, and if it meets the requirements of the inequality.

- Then, they will ask themselves if this can work based on the inequality.
- In this case, the answer is NO, this is not a solution to this inequality, because the result needs to be LESS THAN  $9\frac{1}{2}$ .