**Solving Inequalities in One Variable**

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Solve and Graph

1. $\frac{3}{4}x-\frac{5}{6}\leq -10$
2. $\frac{1}{2}(\frac{2}{3}x+5)>12$
3. $-4.3x-\frac{4}{9}\leq -1.3x+\frac{5}{9}$
4. $0.3(6-0.84x)\geq -0.4(15-20x)$
5. $3<x+4<8$
6. $-5<-3x+4\leq 20$

When solving an inequality, when do you flip the inequality sign?

When graphing the solution to an inequality, when is the circle open and when is it closed?

**Independent Practice**

Solve and Graph

1. $\frac{2}{5}x-\frac{4}{5}\leq -1-\frac{3}{10}x$
2. $2.4(4-3x)\leq -0.2(30-12x)$
3. $-1<2x-3<10$
4. $-2\leq -x-1\leq 20$