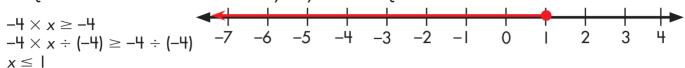
Lesson 3.5 Using Variables to Express Inequalities

An **inequality** is a mathematical sentence that states that two expressions are not equal. $2\times 5>6$

Inequalities can be solved the same way as you solve equations.



When you multiply or divide by a negative number, you must flip the inequality sign.

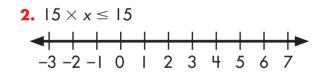
Solve each inequality and graph its solution.

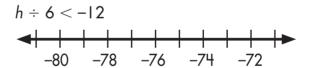
a

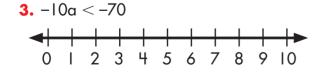
b

$$\frac{y}{5} \le -\frac{3}{5}$$

$$-9 - 9 - 7 - 6 - 5 - 4 - 3 - 2 - 1 - 0 - 1$$







$$n \div 2 \ge 2$$
 $-1 \ 0 \ 1 \ 2 \ 3 \ 4 \ 5 \ 6 \ 7 \ 8 \ 9$