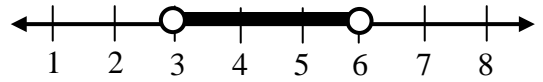


Lesson 4.9C ~ Inequalities

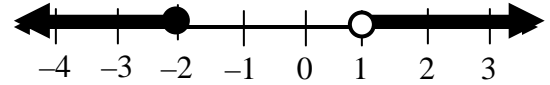
Name _____ Period _____ Date _____

A **compound inequality** is two or more inequalities joined together with *or* or *and*.

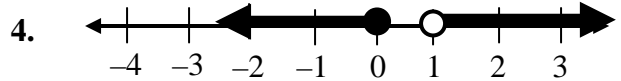
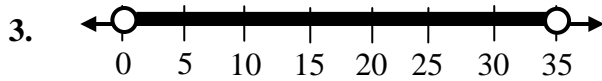
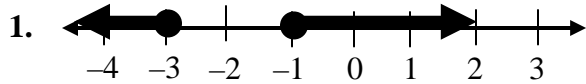
For example, the graph at the right shows $x > 3$ and $x < 6$.



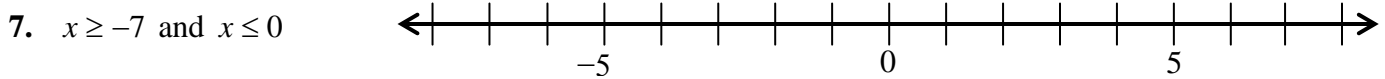
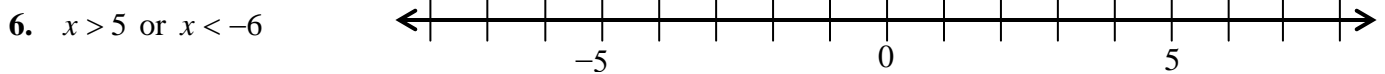
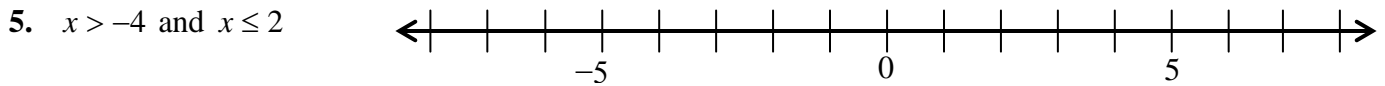
Compound inequalities can also be written as *or* statements. The graph at the right shows $x \leq -2$ or $x > 1$.



Write a compound inequality for each graph shown. Use x as the variable. Be sure to specify *and* or *or* between the inequalities.



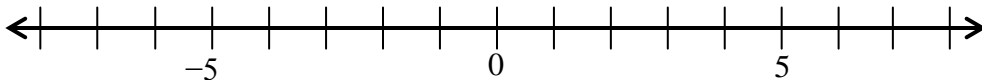
Graph the following compound inequalities on a number line.



Write and graph the compound inequality for each situation.

8. Jules has more than two animals (a) and at most 7 animals.

Inequalities: _____



9. The temperature (t) is either less than -3 degrees or greater than 2 degrees.

Inequalities: _____

