**9.1: Representing Inequalities (day 2)**

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| --- |
| DRILLS |
| Express the inequality graphically:   * a > 5 |

In Chapter 8, we say that equations usually had 1 solution. However, **inequalities** have **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.**



Ex. 1:  has many solutions. Which of the following work?



a) x = 3



b) x = 4



c) x = -2



d) x = 6



Since there are too many possible solutions to any inequality, we cannot list all of them.



 We will show the solution to inequalities by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.



We will often have more than 1 inequality to consider at a time.

Ex. 2: Show the solution graphically of the following inequalities:

a)  AND 







b)  OR 







c)  OR  AND 







d)  OR  AND 







Ex. 3: Test the numbers given in the equalities.

a)  and 



x = 2



x = 7



x = -5



b) 



x = 2



x = 1



x = -3



**PRACTICE:** Pg. 347 # 6, 13, 14, 15, 16, 17, 25