



1) Above is a map of the Chicago Loop. You have received secret inside information on the locations that members of the Chicago Bulls will be eating at for Lunch. Shade the areas where you might look for the Bulls player in PENCIL.

- A) Derrick Rose is going to be on Randolph, West of Clark.
- B) Joakim Noah is going to be on Washington, between Franklin and State.
- C) Carlos Boozer will be on Madison, either West of Wacker or East of La Salle.
- D) Luol Deng will be on Monroe, East of Wells and West of Dearborn.
- E) Taj Gibson will be on Adams, East of Wabash or East of Michigan.
- F) Kurt Thomas will be on Jackson, East of Columbus and West of the Chicago River.

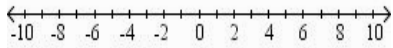
A Compound Inequality \_\_\_\_\_

And Statement

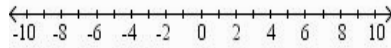
Or Statement

**I. Graph the following inequalities on the number line.**

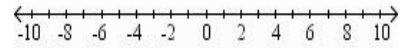
3.  $x > -5$



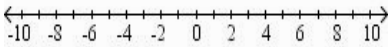
4.  $-3 \leq x < 1$



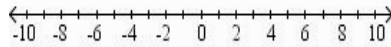
5.  $x < 1$  or  $x \geq 2$



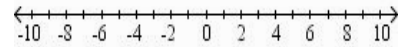
6.  $-2.5 \leq x \leq 5.2$



7.  $x > 0$  and  $x \leq 9$



8.  $x > 3$  or  $x \leq -4$

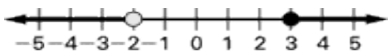


9. Is it possible to graph  $x > 3$  and  $x \leq -2$ ? Why or why not?

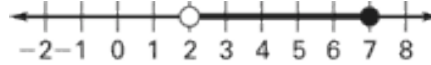
10. Is it possible to graph  $x > 4$  or  $x > 5$ ? Why or why not?

**II. Write an inequality for each graph.**

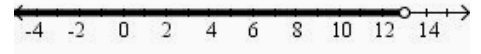
11.



12.



13.



**III. Translate each sentence into an inequality.**

14. All real numbers that are less than -9 or greater than or equal to 4.

15. All real numbers that are greater than or equal to -3.67 and less than 5.

16. The temperature on Mars has a maximum temperature of  $-7^{\circ}\text{C}$  and the minimum temperature of  $-133^{\circ}\text{C}$ .

17. Mr. Fahrenbacher has at most 10 siblings and least 2.

18. The difference of 5 and a number,  $n$  is at least -10 and at most 40.