

❖ Part 1 --- Graphing Inequalities

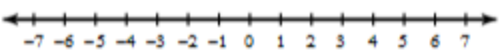
➤ Inequality: Any mathematical _____ that contains the symbols _____, _____, _____, or _____.

- _____ greater than
- _____ less than
- _____ less than or equal to
- _____ greater than or equal to

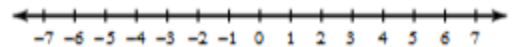
➤ Graphing Inequalities on a Number Line:

- Shade the _____ that make the inequality _____
 - _____ circle to represent $>$ or $<$
 - _____ or _____ circle to represent \geq or \leq
- **Shade the graph for each inequality.**

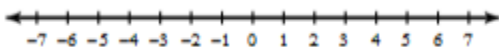
1. $n > 0$



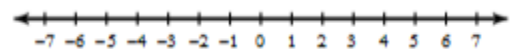
2. $k \leq 1$



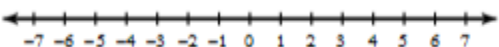
3. $x \geq -2$



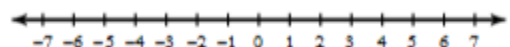
4. $n < -6$



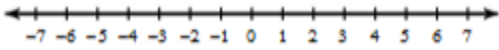
5. $3 < x$



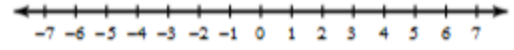
6. $-4 \geq k$



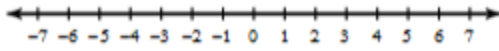
7. $0 < x < 5$



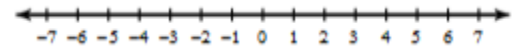
8. $-3 \leq k < 2$



9. $n < 1$ or $n \geq 6$

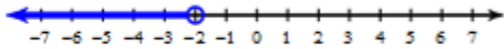


10. $n < -4$ or $n > 0$

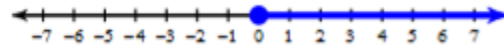


• Write an inequality for each graph.

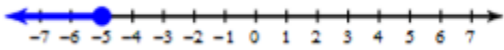
11. _____



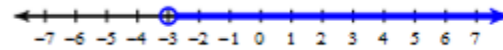
12. _____



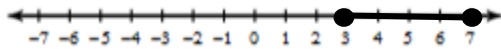
13. _____



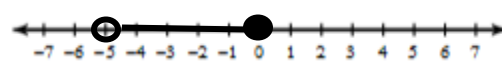
14. _____



15. _____



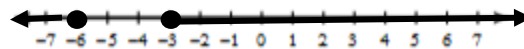
16. _____



17. _____



18. _____

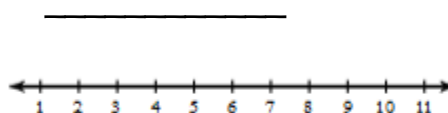
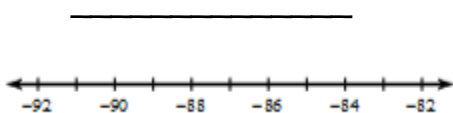


❖ Part 2 --- Solving Inequalities

- Solve like an _____
 - Switch sides of the inequality and the symbol if the variable is on the _____
 - If you _____ or _____ by a _____ number, switch the inequality symbol's _____
- Solve and graph the inequality.

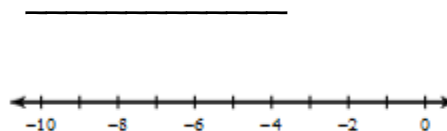
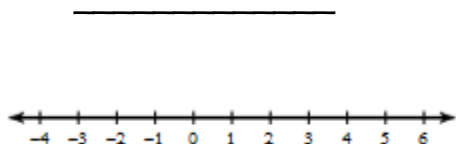
19. $\frac{x}{12} \geq -7$

20. $n - 8 \geq -4$



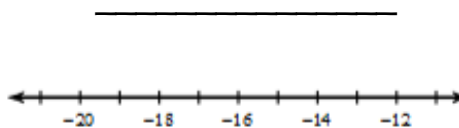
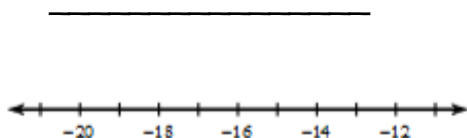
21. $-15 + v \geq -13$

22. $9x < -18$



23. $-19r \geq 361$

24. $6a > -66$



25. $-\frac{x}{3} \geq 2$

26. $x - 12 > 3$

