



NAME _____

Module 5 Solving Linear Inequalities of One Variable

Lesson 1 Solving Linear Inequalities by Inspection

Graph each inequality on a number line.

1. $B \leq -5$



2. $B < -5$



3. $x \geq -1$



4. $x \leq -1$



5. $-4 > m$



6. $m < -4$



7. $8 < G$



8. $G > 8$



Solve the following inequalities by inspection. Then graph each solution on a number line.

9. $h - 4 > 0$ $h > 4$ _____



10. $9 + D < 0$ $D < -9$ _____



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11. $t - 15 \leq -19$ $t \leq -4$ _____



12. $K - 3 > 2$ $K > 5$ _____



13. $5H \geq -35$ $H \geq -7$ _____



14. $15R < 45$ $R < 3$ _____



15. $-\frac{w}{6} < 0$ $w > 0$ _____



16. $-\frac{y}{5} > 0$ $y < 0$ _____



17. $-5z \geq -25$ $z \leq 5$ _____



18. $-8V \leq 56$ $V \geq -7$ _____



Determine if the given number is a solution to the inequality. Explain your answer.

19. $n = 9$ for $\frac{n}{3} < 0$ No, $3 < 0$ is false. _____

20. $Q = 0$ for $8Q \geq 0$ Yes, $0 \geq 0$ is true. _____