**Algebra 1** **Name** _____
**Review: Sections 2.1 - 2.4**

**Write the sentence as an inequality.**

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|---|---|
| 1. 6 is no more than the quotient of a number x and 7. | |
| 2. 12 is less than the sum of a number and 15. | |

**Matching. Match the verbal model on the left to the inequality on the right.**

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|---|---|
| 3. _____ The product of a number y and 3 is greater than 9. | a. $\frac{y}{3} \geq 9$ |
| 4. _____ The quotient of a number y and 3 is at least 9. | b. $y + 3 > 9$ |
| 5. _____ 3 less than a number y is greater than or equal to 9. | c. $3y > 9$ |
| 6. _____ The sum of a number y and 3 is more than 9. | d. $y - 3 \geq 9$ |
| 7. _____ The difference of y and 3 is less than or equal to 9. | e. $y - 3 \leq 9$ |

**Write the inequality that represents the graph.**

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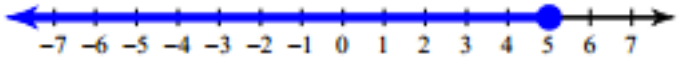
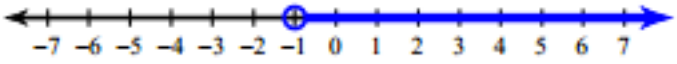
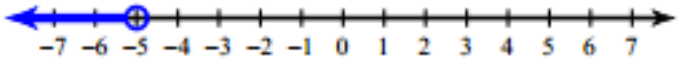
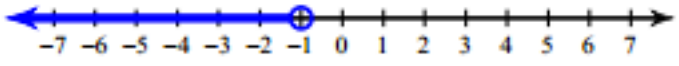
|---|---|
| 8.  | |
| 9.  | |
| 10.  | |
| 11.  | |

**Graph the inequality.**

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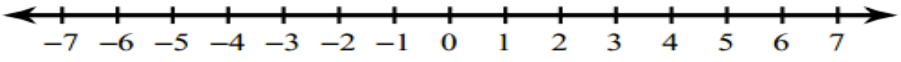
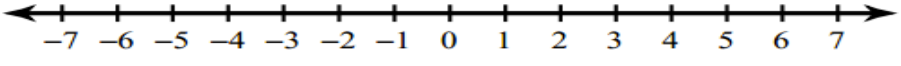
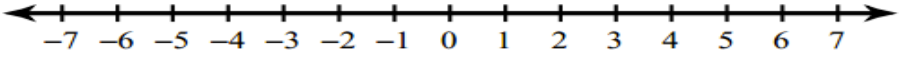
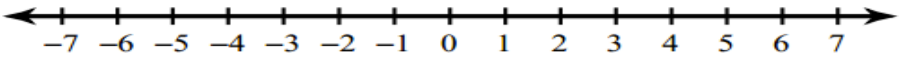
|---|---|
| 12. $x > -5$ |  |
| 13. $2 \geq x$ |  |
| 14. $x \geq -3$ |  |
| 15. $0 > x$ |  |

**Solve each inequality, showing all steps. Do not graph.**

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|---|---|
| 16. $4 + t \leq 8$ | 17. $m - (-10) < 15$ |

| | |
|---|---|
| 18. $-4q \geq 16$ | 19. $15 > \frac{r}{2}$ |
| 20. $\frac{2}{3}m + 2 \leq 6$ | 21. $-6c + 5 > 65$ |
| 22. $20 \geq 3y - 4$ | 23. $-3x - 1 < 5$ |
| 24. $2x + 7 \geq x - 8$ | 25. $3x - 18 > -x + 6$ |
| 26. $2(3x + 1) \leq 6x + 9$ | 26. $\frac{1}{2}(10x - 8) \leq 5(x + 1)$ |

27. Grady is driving through a construction zone and sees these two signs at the side of the road. Write and graph <u>two</u> inequalities that describe the speed that Grady can drive and the possible fines that Grady could have if he passes the speed limit.

28. You must maintain a minimum balance of $60 in your bank account. You currently have $280 in your account. An ATM allows you to take out money in $20 bills only. Write and solve an inequality that represents how many $20 bills you can withdraw without going below your minimum balance.