

Name: _____ Date: _____ Period: _____

Solving Inequalities by Multiplication and Division

6.2 Practice 2

Match each inequality with its corresponding statement.

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|--------------------------|---|
| 1. $3n < 9$ | a. Three times a number is at most nine |
| 2. $\frac{1}{3}n \geq 9$ | b. One third of a number is no more than nine |
| 3. $3n \leq 9$ | c. Negative three times a number is more than nine |
| 4. $-3n > 9$ | d. Three times a number is less than nine |
| 5. $\frac{1}{3}n \leq 9$ | e. Negative three times a number is at least nine |
| 6. $-3n \geq 9$ | f. One third of a number is greater than or equal to nine |

Solve each inequality. Then check your solution.

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|----------------------------|-----------------------|----------------------------|----------------------------|
| 7. $14g > 56$ | 8. $11w \leq 77$ | 9. $20b \geq -120$ | 10. $-8r < 16$ |
| 11. $-15p \leq -90$ | 12. $\frac{s}{4} < 9$ | 13. $\frac{a}{9} \geq -15$ | 14. $-\frac{p}{7} > -9$ |
| 15. $-\frac{t}{12} \geq 6$ | 16. $5z < -90$ | 17. $-13m > -26$ | 18. $\frac{k}{5} \leq -17$ |
| 19. $-y < 36$ | 20. $-16c \geq -224$ | 21. $-\frac{h}{10} \leq 2$ | 22. $12 > \frac{d}{12}$ |

Define a variable, write an inequality, and solve each problem. The check your solution.

23. Four times a number greater than -48 .

24. One eighth of a number is less than or equal to 3 .

25. Negative twelve times a number is no more than 84 .

26. Negative one sixth of a number is less than -9 .

27. Eight times a number is at least 16 .