Name _____ Date _____

LESSON 6.2

Practice A

For use with pages 362–368

Tell which property you would use to solve the inequality.

1. $8m < 64$

2. $\frac{x}{3} \geq -1$

3. $10 \leq -2y$

4. $-\frac{p}{3} > 7$

Match the equivalent inequalities.

5. $4x < 8$

6. $-4x > 8$

7. $-4x < -8$

8. $2x > -4$

A. $x < -2$

B. $x > -2$

C. $x < 2$

D. $x > 2$

Match the verbal sentence with the inequality. Then solve the inequality.

9. The product of 3 and x is less than 9.

10. The quotient of x and 9 is greater than 3.

11. The product of 9 and x is less than 3.

A. $9x < 3$

B. $\frac{x}{9} > 3$

C. $3x < 9$

Solve the inequality. Graph your solution.

12. $4x \geq 24$

13. $3b < -21$

14. $-2m > 20$

15. $\frac{p}{3} \leq 5$

16. $\frac{n}{2} > -4$

17. $\frac{y}{-4} \geq 1$

18. $-6z < 36$

19. $\frac{1}{3}d > -2$

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Name _____ Date _____

LESSON 6.2

Practice A *continued*

For use with pages 362–368

Write the verbal sentence as an inequality. Then solve the inequality and graph your solution.

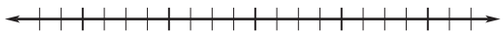
20. The product of 5 and y is less than or equal to 15.

21. The product of 9 and b is greater than -36.

22. The product of 2 and m is greater than or equal to 12.

23. The product of -1 and p is less than 5.

24. The product of -4 and z is greater than or equal to -1.



25. **School Carnival** You are in charge of purchasing helium balloons for a school carnival. You have been given \$40 to buy the balloons. The balloons cost \$1.60 each.

a. Write and solve an inequality that gives the possible numbers b of balloons you can buy.

b. What is the greatest number of balloons that you can buy?

26. **Speed Reading** You want to improve your reading speed to at least 300 words per minute. You have been working on reading faster and want to test yourself by reading for 5 minutes.

a. Write and solve an inequality that gives the possible numbers w of words you can read in 5 minutes.

b. What is the least number of words that you could read in 5 minutes in order to reach your goal?

27. **Road Trip** You and three of your friends plan to rent a car for a road trip. The group budget is \$350. The group decides to split the cost of the rental equally.

a. Write and solve an inequality that gives the cost c in dollars that each person will pay.

b. What is the greatest amount of money that each of you can spend?

LESSON 6.2

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