

**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.  $4x < 8$

A.  $x < -2$

6.  $-4x > 8$

B.  $x > -2$

7.  $-4x < -8$

C.  $x < 2$

8.  $2x > -4$

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.

A.  $9x < 3$

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

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

11. The product of 9 and  $x$  is less than 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.  $\frac{1}{3}d > -2$



**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.

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

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

- Write and solve an inequality that gives the cost  $c$  in dollars that each person will pay.
- What is the greatest amount of money that each of you can spend?