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	Practice A
6.2	For use with pages 362–368

Tell which property you would use to solve the inequality.

1.	8 <i>m</i> < 64	2.	$\frac{x}{3} \ge -1$
3.	$10 \leq -2y$	4.	$-\frac{p}{3} > 7$

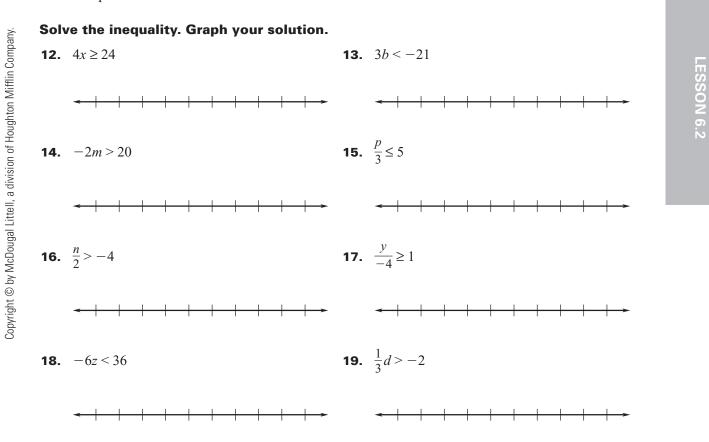
Match the equivalent inequalities.

5.	4x < 8	Α.	<i>x</i> < -2
6.	-4x > 8	В.	<i>x</i> > -2
7.	-4x < -8	С.	<i>x</i> < 2
8.	2x > -4	D.	<i>x</i> > 2

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

9.	The product of 3 and x is less than 9.	Α.	9x < 3
10.	The quotient of x and 9 is greater than 3.	В.	$\frac{x}{9} > 3$

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



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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.

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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.

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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