Name _____  Date _____

# Practice A
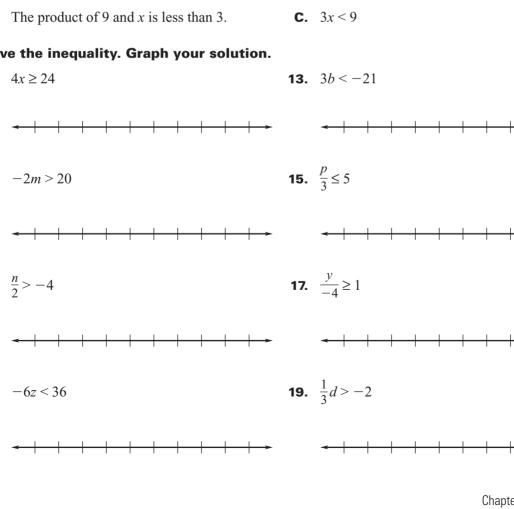*For use with the lesson "Solve Inequalities Using Multiplication and Division"*

**Tell which property you would use to solve the inequality.**

**1.** $8m < 64$

**2.** $\dfrac{x}{3} \geq -1$

**3.** $10 \leq -2y$

**4.** $-\dfrac{p}{3} > 7$

**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.** $\dfrac{x}{9} > 3$

**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.** $\dfrac{p}{3} \leq 5$

**16.** $\dfrac{n}{2} > -4$

**17.** $\dfrac{y}{-4} \geq 1$

**18.** $-6z < 36$

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

**LESSON 5.2** **Practice A** *continued*
For use with the lesson "Solve Inequalities Using Multiplication and Division"

**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?