

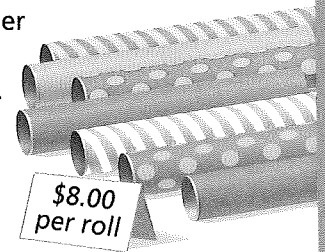
Name: \_\_\_\_\_

# Practice & Problem Solving

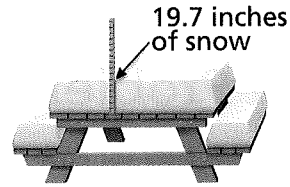


In 13–22, write an inequality for each situation.

13. Up to 12 people,  $p$ , can ride in the van.
14. A number of days,  $d$ , of sunshine is not 28.
15. The distance of the race,  $r$ , is farther than 6.2 miles.
16. The value,  $v$ , of the bracelet is less than \$85.25.
17. The number of people,  $p$ , that a restaurant can seat at one time is no more than 171.
18. The time,  $t$ , a customer has left on a parking meter is at least 25 minutes.
19. The bill,  $b$ , was less than \$45.
20. The girls live  $b$  blocks apart; they do not live  $7\frac{1}{2}$  blocks apart.
21. The speed of the truck,  $s$ , must be no less than 34 miles per hour.
22. The number of baseball games,  $x$ , that Karen went to last year is more than 5.
23. Mia is taller than Gage. If  $m$  represents Mia's height and  $g$  represents Gage's height, write an inequality that shows the relationship between their heights.
24. Taryn sold gift-wrapping paper for a school fund-raiser. She sold at least 15 rolls of paper. Write an inequality to represent the amount of money,  $d$ , she earned for the fund-raiser.



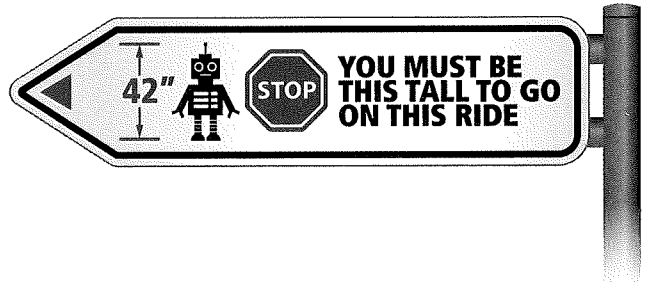
25. A city just experienced its greatest 1-day snowfall. Write an inequality to represent a snowfall that would beat this record.



26. The first bookcase,  $a$ , in a library can hold 1 less book than the second bookcase. The second bookcase holds 2,492 books. Write an inequality to represent the number of books the first bookcase can hold.

27. A certain airplane must carry no more than 134 passengers during a flight. Write an inequality to represent the number of passengers,  $p$ , that would **NOT** be allowed during this flight.

28. **Higher Order Thinking** To ride a certain roller coaster, a rider must be at least 42 inches tall. To represent this situation, Elias wrote  $h \geq 42$  and Nina wrote  $h > 42$ . Who is correct? Explain.



## Assessment Practice

29. Miguel earns extra money working two weekends with his dad. He is saving to buy a new bike that costs \$140.

Heather says that Miguel needs to earn more than \$6 for each hour that he works to have enough money to buy the bike. Her work is shown below. Use an inequality to explain why she is incorrect.

Heather's Solution

Weekend 1: 16 hours  
 Weekend 2:  $\frac{+ 7 \text{ hours}}{23 \text{ hours}}$

$$\$140 \div 23 \text{ hours} \geq \$6.00 \text{ per hour}$$

Miguel has to earn more than \$6.00 per hour.

