$\qquad$
$\qquad$

Write an inequality for each sentence.

1. More than 2,500 people attended the convention.

$$
p>2500
$$

2. Her earnings were no more than $\$ 64$. $e=$ earning $S$

$$
e \leq 64
$$

3. The winning 5 K race time was less than 22 minutes. $t=$ five

$$
t<22
$$

4. A checking-account balance is no more than $\$ 500 . b=$ balance

$$
b \leq \$ 500
$$

5. A maximum ceiling height of 8 feet was required in the new buildings. $h=$ he if $h t$

$$
n \leq 8
$$

6. A minimum number of 12 participants is required to hold a bike rally. $p=$ participants $P \geq 12$

## Graph each inequality on a number line.

7. $x>15$

8. $s<6$

9. $b \geq 13$

10. $x<23$

11. $r>18$

12. $r \geq 5$

13. $x>30$

14. $b \leq 4$

15. $a \geq 9$

16. DONATIONS Total donations at the Fireman's Ball failed to reach $\$ 940$. Write and graph an inequality that represents the amount raised.
 $d=$ donations
$\qquad$
$\qquad$
17. ROLLER COASTER In order to ride a roller coaster at the theme park, riders must be at least 52 inches tall. Write and graph an inequality to show the safe heights for riders.

$n=$ height
$h \geq 52$ inches
18. INTERSTATES On interstate highways, the minimum allowable lane width is 12 feet. Write and graph an inequality to show the possible width of a lane.
$\frac{1}{10} 11$
$\omega=w i d t h$
$w \geq 12$
19. SPEED LIMIT The speed limit on most state roads is 55 miles per hour. Write and graph an inequality to describe the legal speed on state roads.

$$
\text { speed }=s
$$

$$
s \leq 55
$$

6. TRIP Seniors who want to go on the group trip to the mountains have to pay at least $\$ 400$ of their total bill before the payment deadline. Write and graph an inequality to describe the acceptable payment.


$$
p \geq 400
$$

