## SKILL PRACTICE

EXAMPLE 1
on p. 380
for Exs. 3-6

1. VOCABULARY Copy and complete: $\mathrm{A}(\mathrm{n})$ ? is an inequality that consists of two inequalities joined by and or or.
2. WRITING Describe the difference between the graphs of $-6 \leq x \leq-4$ and $x \leq-6$ or $x \geq-4$.

TRANSLATING VERBAL PHRASES Translate the verbal phrase into an inequality. Then graph the inequality.
3. All real numbers that are less than 6 and greater than 2
4. All real numbers that are less than or equal to -8 or greater than 12
5. All real numbers that are greater than or equal to -1.5 and less than 9.2
6. All real numbers that are greater than or equal to $-7 \frac{1}{2}$ or less than or equal to -10

EXAMPLE 2
on p. 381
for Exs. 7-8

EXAMPLES
3, 4, and 5 on pp. 381-382
for Exs. 9-22
WRITING AND GRAPHING INEQUALITIES Write and graph an inequality that describes the situation.
7. The minimum speed on a highway is 40 miles per hour, and the maximum speed is 60 miles per hour.
8. The temperature inside a room is uncomfortable if the temperature is lower than $60^{\circ} \mathrm{F}$ or higher than $75^{\circ} \mathrm{F}$.

## SOLVING COMPOUND INEQUALITIES Solve the inequality. Graph your

 solution.9. $6<x+5 \leq 11$
10. $-7>y-8 \geq-12$
(11.) $-1 \leq-4 m \leq 16$
11. $-6<3 n+9<21$
12. $-15 \leq 5(3 p-2)<20$
13. $7>\frac{2}{3}(6 q+18) \geq-9$
14. $2 r+3<7$ or $-r+9 \leq 2$
15. $16<-s-6$ or $2 s+5 \geq 11$
16. $v+13<8$ or $-8 v<-40$
17. $-14>w+3$ or $5 w-13>w+7$
18. $9 g-6>12 g+1$ or $4<-\frac{2}{5} g+8$
19. $-2 h-7>h+5$ or $\frac{1}{4}(h+8) \geq 9$

ERROR ANALYSIS Describe and correct the error in solving the inequality or in graphing the solution.
21.

22.


