Name $\qquad$ Date $\qquad$ Class $\qquad$

## Reteach

## 3-2 Solving Inequalities by Adding or Subtracting

The method for solving one-step inequalities by adding is just like the method for solving one-step equations by adding.
Solve $x-2=1$ and graph the solution. Solve $x-2 \geq 1$ and graph the solutions.
$x-2=1$


$$
\begin{aligned}
& x-2 \geq 1 \\
& +2+2 \quad \text { Add } 2 \text { to each side. }
\end{aligned}
$$



Solve $-4=a-3$ and graph the solution. Solve $-4>a-3$ and graph the solutions.


Solve each inequality and graph the solutions.

1. $b-4<3$
2. $x-5<-2$

3. $-10>-6+x$
4. $1 \leq f-3$

$\qquad$ Date $\qquad$ Class $\qquad$

## LEsson, Reteach

## 3-2 Solving Inequalities by Adding or Subtracting (continued)

The method for solving one-step inequalities by subtracting is just like the method for solving one-step equations by subtracting.

Solve $x+3=7$ and graph the solution. Solve $x+3<7$ and graph the solutions.
$x+3=7$
$x+3<7$
$\begin{aligned} &-3 \\ & x=4-3 \\ & x<4\end{aligned} \quad$ Subtract 3 from each side. $\quad \frac{-3}{} \quad$ Subtract 3 from each side.



Solve $-4=h+2$ and graph the solution. Solve $-4 \leq h+2$ and graph the solutions.


Solve each inequality and graph the solutions.
5. $c+3 \leq-2$
6. $4+x<6$

7. $4<w+7$
8. $9 \leq 5+n$


Practice A
3-2 Solving Inequalities by Adding or Subtracting
Solve each inequality and graph the solutions.

1. $t-3>5$
2. $4 \leq p-1$

[^0]
## Practice B

Solving Inequalities by Adding or Subtracting

## Solve each inequality and graph the solutions.

1. $b+8>15$
2. $t-5 \geq-2$
$\qquad$
$\qquad$


3. $-4+x \geq 1$
4. $g+8<2$


5. $-9 \geq m-9$
6. $15>d+19$


Answer each question
7. Jessica makes overtime pay when she works more than 40 hours in a week. So far this week she has worked 29 hours. She will continue to work $h$ hours this week. Write, solve, and graph an inequality to show the values of $h$ that will allow Jessica to earn overtime pay.

8. Henry's MP3 player has 512 MB of memory. He has already downloaded 287 MB and will continue to download $m$ more megabytes. Write and solve an inequality that shows how many more megabytes he can download.
$287+m \leq 512 ; m \leq 225$
9. Eleanor needs to read at least 97 pages of a book for homework. She has read 34 pages already. Write and solve an inequality that shows how many more pages $p$ she must read. $\qquad$

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Reteach
Solving Inequalities by Adding or Subtracting
The method for solving one-step inequalities by adding is just like the method for solving one-step equations by adding


Solve each inequality and graph the solutions.
$\begin{array}{ll}\text { 1. } b-4<3 & \text { 2. } x-5<-2\end{array}$

$\begin{array}{ll}\text { 3. }-10>-6+x & \text { 4. } 1 \leq f-3\end{array}$

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[^0]:    Answer each question.
    7. Leo has an outdoor painting project he wants to complete today. The directions on the paint can indicate that the minimum temperature for proper adhere and drying is $10^{\circ} \mathrm{C}$. Early proper adherence and drying is $10^{\circ} \mathrm{C}$. Early in the morning the thermometer read $-3^{\circ} \mathrm{C}$. The
    temperature will rise $d$ degrees throughout the temperature will rise $d$ degrees throughout the
    day. Write, solve, and graph an inequality to show the values of $d$ that will allow Leo to paint.
    8. Kalista spent $\$ 29.75$ at the gift shop of the science
    museum. She took $\$ 40$ to the museum and still needs to buy lunch. Write and solve an inequality needs to buy lunch. Write and solve an inequality hat shows how much money $m$ Kalista can spend on her lunch.
    9. Grace is at least 8 inches taller than her younger sister. Her sister is 4 feet tall. Write and solve an inequality that shows how tall $g$ Grace can be.
    
    $29.75+m \leq 40 ; m \leq 10.25$
    $\qquad$

