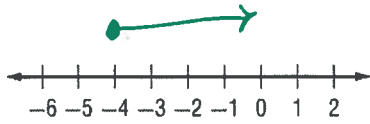


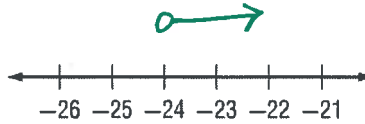
**Exercises – Your turn**

Solve each inequality. Check your solution, and then graph it on a number line

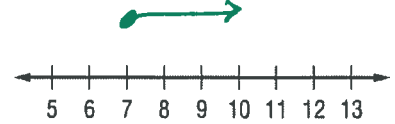
1.  $t + 12 \geq 8$   $-12$   
 $t \geq -4$



2.  $n + 12 > -12$   $-12$   
 $n > -24$



3.  $16 \leq h + 9$   $-9$   
 $7 \leq h$  or  $h \geq 7$



Solve each inequality. Check your solution.

7.  $4p \geq 3p + 0.7$   $-3p$   $-3p$   
 $p \geq 0.7$

8.  $r + \frac{1}{4} > \frac{3}{8}$   $-\frac{1}{4}$   $\frac{2}{8}$   
 $r > \frac{1}{8}$

9.  $9k + 12 > 8k$   $-9k$   $-8k$   
 $12 > -1k$   
 $-12 < k$

5.  $-6k < \frac{1}{5}$   $\div -6$   
 $k > -\frac{1}{30}$   
 or  
 $k > -.0\bar{3}$

6.  $18 < -3b$   $\div -3$   
 $-6 > b$

7.  $30 < -3n$   $\div -3$   
 $-10 > n$

8.  $-0.24 < 0.6w$   $\div 0.6$   $\div 0.6$   
 $-0.4 < w$

Define a variable, write an inequality, and solve each problem. Check your solution.

13. The sum of a number and 8 is less than 12.  $n + 8 < 12$   
 $n < 4$

14. The sum of two numbers is at most 6, and one of the numbers is -2.  $n + (-2) \leq 6$   
 $n \leq 8$

15. The sum of a number and 6 is greater than or equal to -4.  $n + 6 \geq -4$   
 $n \geq -10$

17. Four times a number is no more than 108.  $4n \leq 108$   
 $n \leq 27$

18. The opposite of three times a number is greater than 12.  $-3n > 12$

19. Negative five times a number is at most 100.  $n < -4$

$-5n \leq 100$   
 $n \geq -20$