Inequalities: A way of describing a $\qquad$ or $\qquad$ value.
> To solve inequalities, treat the problem as if it were a normal equation.
> Remember to $\qquad$ the symbol if multiplying or dividing by a $\qquad$ .


Example 1: Solve for $9-4 t>21$. Check your solutions.


You Try! What are the solutions of the inequality? Check your solutions.
a) $-6 a-7 \leq 17$
$+111111+1+1+11+1+$
b) $-4<5-3 n$


Example 2: Solve for each solution.
a) $3(t+1)-4 t \geq-5 \quad H 1 H 11 H 11 H 1 H 1 H 1+$
b) $6 n-1>3 n+8$
$\qquad$ or $\qquad$ —.

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| :---: | :---: |
| Two graphs ___ or come together | Two graphs shoot off in ___ directions |
|  |  |

Example 3: What are the solutions of $-3 \leq m-4<-1$ ? Graph the solutions.


You Try! What are the solutions of $-3<\frac{2 x+1}{5} \leq-1$ ? Graph the solutions.

$411+1+1+1+1+1+1+1+1$


Example 4: What are the solutions of $3 t+2<-7$ or $-4 t+5<1$ ? Graph the solutions.


Example 3: What are the solutions of $\frac{4 y+2}{5}-5>3$ or $\frac{4-3 y}{6}>4$ ? Graph the solutions.


