

# Must Know Questions To Ace Linear Inequalities

1.	<p>Solve the following inequality and represent the answer on a number line.</p> $3x - 2(x + 1) \geq 5(x - 1) + 4$
2.	<p>Find the greatest integer value of <math>x</math> that satisfies the inequality.</p> $\frac{x + 2}{5} - 1 > \frac{x}{3}$
3.	<p>Find the smallest integer value of <math>x</math> that satisfies the inequality.</p> $3x - 2(1 - 5x) > x - 2(2x - 1)$

## Answer Key:

1.  $x \leq -\frac{1}{4}$

2.  $x < -4\frac{1}{2}$   
Greatest integer =  $-5$

3.  $x > \frac{1}{4}$   
Smallest integer =  $1$