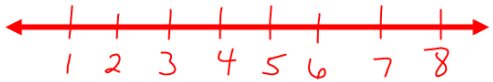
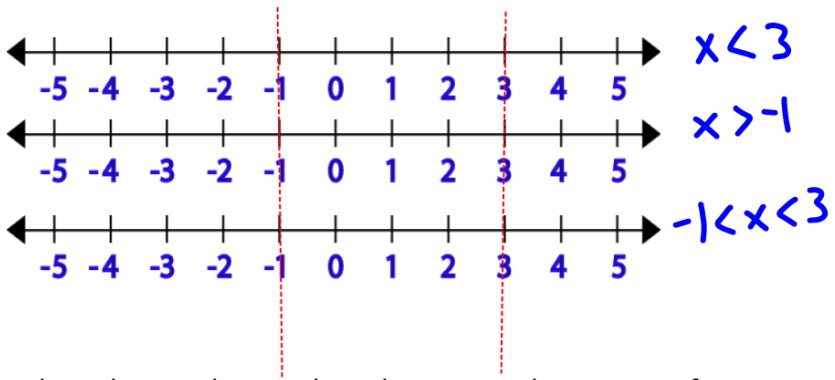
A compound inequality is two simple inequalities combined into one statement with, "and", or, "or".

$x > 3$ and $x < 6$

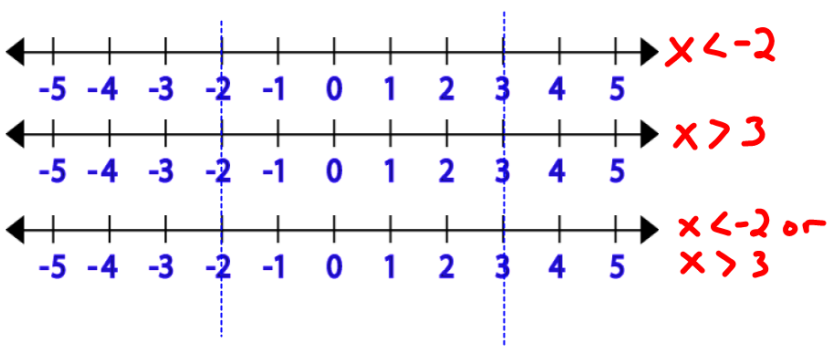


A compound inequality is two simple inequalities combined into one statement with, "and", or, "or".

$x < 4$ or $x > 6$



When the graphs overlap, the region that is true for both is the _____ which show solutions for both inequalities.



When the graphs do not overlap, the combined graph is called a _____ which show solutions for both inequalities.

$-1 < 5+n < 12$

$x+7 \geq 9$ and $\frac{x}{5} \leq 1$

$-3 \leq \frac{x}{2} < 1$

$x+4 \geq 10$ or $\frac{x}{3} < 0$

$-10x+2 \leq -38$ or $3x-8 \leq -23$

$-50 < 7a+6 < -15$

$-1-5x < -1$ or $10+3x \leq -2$

$3x+2 < -2+7x$ or $7n-4 \leq 2n-4$