

Solving Simple Inequalities: 6.EE.5 Understand solving an inequality...Use substitution to determine whether a given number makes an inequality true. 6.EE.7 Represent solutions of inequalities on number line diagrams.





### Activity: Inequality Match-Ups

Prior to class have a copy of 15 inequality graphs on one page. On the other page have simple inequalities (If advanced math, have one-step inequalities to solve) next to free space on the paper. Students must first cut out all inequality graphs and then paste them next to their corresponding inequality. Teacher can visually check to make sure answers are correct before pasting.

## Inequality Match Ups

$2x < -6$	$-3x < -6$	$-5x < 5$	$x + 2 < 5$
$1 > x - 1$	$-1 < x$	$8 < 4x$	$15 < -5x$
$\frac{3}{2}x > 3$	$6 > -6x$	$2x + 3 < -3$	$\frac{x}{2} + 1 < \frac{5}{2}$
$5 - 2x < 11$	$2 - 3x < 5$	$\frac{x}{3} < 1$	$x - 7 > -8$
$2x < -2$	$\frac{x+1}{2} > \frac{1}{2}$	$1 - x > 4$	$-9 > x - 6$

Show your work in solving the inequalities above. Match your answer with one of the following graphs:

A	B	C	D	E
				None of these

For the teacher:

D	A	C	B
E	C	A	D
A	C	D	B
E	C	B	C
E	E	D	D