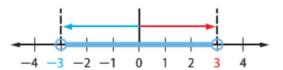
Algebra 1 5.5
Solve and graph absolute value inequalities
Write an absolute value inequality from a graph inequality
absolute value
less than
greater than
floor graphs
whiteboards
speed dating

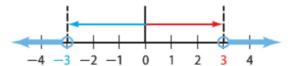
Find the bubble
Less than = Closer

Greater than = Farther
open or closed?

Absolute Value Inequalities (<) The inequality |x| < 3 means that the distance between x and 0 is less than 3.



2 Absolute Value Inequalities (>) The inequality |x| > 3 means that the distance between x and 0 is greater than 3.



 $|Start| \pm |X-30| < 5$ | |X-70| < 10

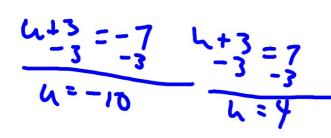
	whiteboards	
$\overline{}$	41	4

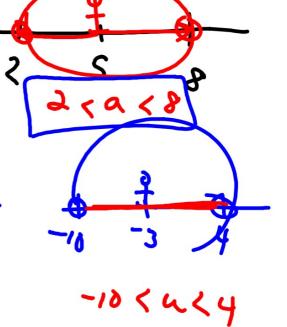
Sol h inequality. Then graph the solution set.

1.
$$|a-5| < 3$$

Bubble Closer or farther? What's in the middle?

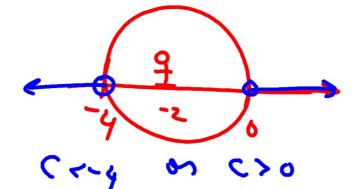
$$a-5=-3$$
 $a-5=3$
 $a=2$
 $a=8$





4.
$$|c+2| > -2$$

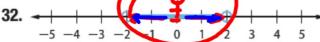
5.
$$|n+5|$$
 3



15.
$$|a+-y|>3$$

 $a+-y=-3$ $a+y=3$
 $a=1$ $a=1$ $a<1$ $a<1$ $a>7$

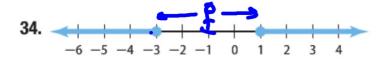
REGULARITY Write an open sentence involving absolute value for each graph.



/x-0/< 2

What's in the middle? Bubble? Closer or farther?





|x+1|=2 | 18=7 >>>

