

Algebra 1 5.5

Solve and graph absolute value inequalities

Write an absolute value inequality from a graph
inequality

absolute value

less than \leq $<$

greater than \geq $>$

floor graphs

whiteboards

Practice problems:
Solve and graph

$$|x-7| \geq 8$$

$$\begin{array}{r} x-7 = -8 \\ +7 \quad +7 \\ \hline x = -1 \end{array}$$

$$\begin{array}{r} x-7 = 8 \\ +7 \quad +7 \\ \hline x = 15 \end{array}$$

$$|x+1| < 7$$

$$|2x-3| > 19$$

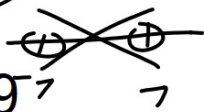
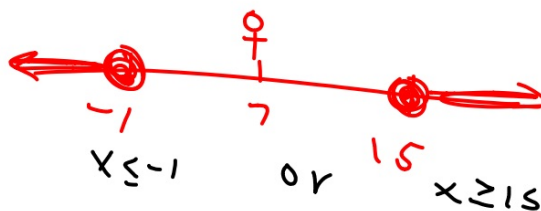
$$|3x-3| \leq 6$$

$$|4x-12| < 20$$

$$\begin{array}{r} x+1 = -7 \\ -1 \quad -1 \\ \hline x = -8 \end{array}$$

$$\begin{array}{r} x+1 = 7 \\ -1 \quad -1 \\ \hline x = 6 \end{array}$$

$$-8 < x < 6$$



ICE probs. due today EOC