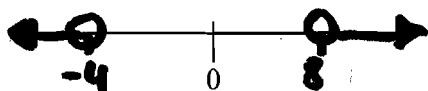


Solve AND Graph each non-empty solution set. Show work if necessary. If there is a no solution, label it. in Interval Notation

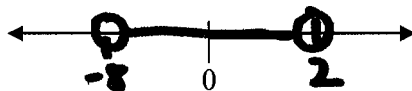
1) $|x-2| > 6$

$(-\infty, -4) \cup (8, \infty)$



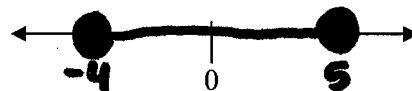
2) $|x+3| < 5$

$(-8, 2)$



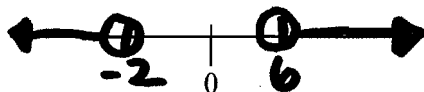
3) $|2x-1| \leq 9$

$[-4, 5]$



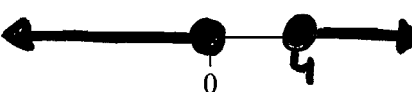
4) $|2-x| > 4$

$(-\infty, -2) \cup (6, \infty)$



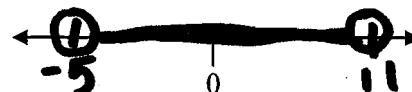
5) $3|x-2| \geq 6$

$(-\infty, 0] \cup [4, \infty)$



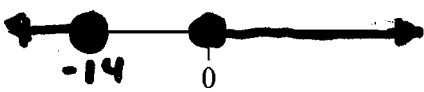
6) $|\frac{x-3}{4}| < 2$

$(-5, 11)$



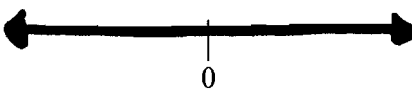
7) $|x+7|-3 \geq 4$

$(-\infty, -14] \cup [0, \infty)$



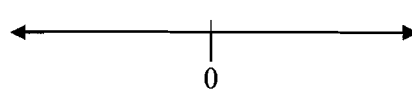
8) $|3x-1| > -2$

$(-\infty, \infty)$



9) $|x+4| < 0$

$\{\emptyset\}$



10) The IQ scores for the middle 50% of the population can be written as $|\frac{x-100}{15}| \leq \frac{2}{3}$, where x is a person's IQ. Write and solve to find an interval for the IQ scores for the middle 50% of the population.

$[-0.67, 0.67]$