

Solving Absolute Value Equations and Inequalities

Name: _____

Date: _____ Period: 2

1. Solve each equation. Be sure to check your solutions.

a. $3|x - 6| = 15$

b. $-4|x + 4| = 20$

c. $|-3x + 3| = 24$

d. $8|n + 40| - 6 = 10$

e. $\frac{|3v - 2|}{4} = 3$

2. Solve each inequality and graph its solution on a number line. Be sure to show your test points.



a. $|n + 10| + 2 \leq 28$



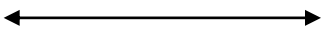
b. $|8x| + 6 \geq 42$



c. $|-8 - 6m| > 24$



d. $|9 - p| + 5 < 24$



d. $|4x - 2| + 6 \geq 18$

3. Solve each equation for the given variable

a. $2x + 15 = 5y$ for x.

b. $2x + 4y = 20$ for x

b. $x + y = 12$ for x

