Today's Plan:

Learning Target (standard): I will review solving equations & inequalities and writing solutions in set and interval notation.

Students will: Complete practice problems over previous concepts at the boards, put up homework problems on the board and make necessary corrections to their own work, and complete practice problems.

Teacher will: Provide practice problems over previous concepts, check homework problems for accuracy and provide students feedback, describe and provide examples of practice problems.

Assessment: Board work, homework check and homework assignment

Differentiation: Students will work at the board, go over and correct homework at their seats, and actively engage in review problems.

CP Algebra II ~ Unit 1 Review 2 #1-16

1) $x=-1$

2) $x=\frac{33}{8}$

3) $n=0,\frac{20}{3}$

4) $r=-\frac{48}{7},8$

5) $a=\frac{bg}{2}-\frac{1}{2}$

6) $x=-\frac{u}{16}-\frac{y}{4}-\frac{1}{2}$

7) $\mathbb{Z}$ (integer)
$\mathbb{Q}$ (rational)
$\mathbb{R}$ (real)

8) (irrational)
$\mathbb{R}$ (real)

9) $\{n\,|\,n>3\};(3,\infty)$

10) $\{k\,|\,k\le 4\};(-\infty,4]$

11) $\{b\,|\,-4<b\le 0\};(-4,0]$

12) $\{n\,|\,n\le -11, n>-3\};(-\infty,-11]\cup(-3,\infty)$

13) $\{n\,|\,n\le 0, n\ge 2\};(-\infty,0]\cup[2,\infty)$

14) $\left\{n\,|\,n\le -\frac{40}{7}, n\ge 4\right\};(-\infty,-\frac{40}{7}]\cup[4,\infty)$

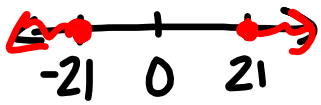
15) $\left\{x\,|\,-4<x<\frac{29}{5}\right\};\left(-4,\frac{29}{5}\right)$

16) $\left\{m\,|\,-\frac{8}{5}\le m\le 2\right\};\left[-\frac{8}{5},2\right]$

Solve the inequality. Write the solution using set and interval notation.

$$\frac{|6-10a|}{7} \geq 3$$

$|6-10a| \geq 21$



$6-10a \leq -21$

$-10a \leq -27$

$a \geq \frac{27}{10}$

$6-10a \geq 21$

$-10a \geq 15$

$a \leq -\frac{3}{2}$

$\left\{a \mid a \leq -\frac{3}{2}, a \geq \frac{27}{10}\right\}$

$\left(-\infty, -\frac{3}{2}\right] \cup \left[\frac{27}{10}, \infty\right)$