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.

Absolute Value Inequalities Practice

1) $m = -1, 3$

2) $r = -3, 4$

3) $r = -12, 6$

4) $x = -\frac{11}{9}, -1$

5) $\varnothing$

6) $\{a \mid a \leq -19, a \geq -1\}; (-\infty, -19] \cup [-1, \infty)$

7) $\mathbb{R}$

8) $\{m \mid -1 < m < 3\}; (-1, 3)$

9) $\{r \mid r < -9, r > 7\}; (-\infty, -9) \cup (7, \infty)$

10) $\{b \mid -4 \leq b \leq 10\}; [-4, 10]$

Solve.

$$-4+3(k-7)=-2(5-2k)$$

$-4+3k-21=-10+4k$

$3k-25=-10+4k$

$-15=k$

$k=-15$

Solve.

$$-4(4-n)+8n=2(4n-4)$$

$-16+4n+8n=8n-8$

$-16+12n=8n-8$

$4n=8$

$n=2$

Solve.

$$-\frac{15}{4}\left(-\frac{1}{4}x+1\right)+\frac{3}{2}x=\frac{15}{8}+\frac{7}{8}x$$

$16\left[\frac{15}{16}x-\frac{15}{4}+\frac{3}{2}x=\frac{15}{8}+\frac{7}{8}x\right]$

$15x-60+24x=30+14x$

$39x-60=30+14x$

$25x=90$

$x=\frac{18}{5}$

Solve.

$$\frac{475}{48}+\frac{31}{8}n=\frac{1}{3}n-\frac{9}{8}\left(n-\frac{1}{2}\right)$$

$48\left[\frac{475}{48}+\frac{31}{8}n=\frac{1}{3}n-\frac{9}{8}n+\frac{9}{16}\right]$

$475+186n=16n-54n+27$

$475+186n=-38n+27$

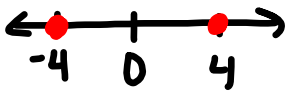
$224n=-448$

$n=-2$

Solve.

$$\frac{|7v-2|}{4}=1$$

$|7v-2|=4$



$7v-2=-4$ $7v-2=4$

$7v=-2$ $7v=6$

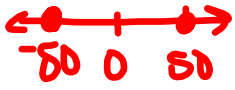
$v=-\frac{2}{7}$ $v=\frac{6}{7}$

$v=-\frac{2}{7},\frac{6}{7}$

Solve.

$$\frac{-2|-8m-6|}{-2}=\frac{-100}{-2}$$

$|-8m-6|=50$



$-8m-6=-50$ $-8m-6=50$

$-8m=-44$ $-8m=56$

$m=\frac{11}{2}$ $m=-7$

$m=-7,\frac{11}{2}$

Solve for the indicated variable.

$$2 - 3x = d + 3r; x$$

$-2 \quad -2$

$$\frac{-3x}{-3} = \frac{d}{-3} + \frac{3r}{-3} - \frac{2}{-3}$$

$$x = -\frac{d}{3} - r + \frac{2}{3}$$

Solve for the indicated variable.

$$-1 - 4x = d - 4r; x$$

$+1 \quad +1$

$$\frac{-4x}{-4} = \frac{d}{-4} - \frac{4r}{-4} + \frac{1}{-4}$$

$$x = -\frac{d}{4} + r - \frac{1}{4}$$

Solve for the indicated variable.

$u = -30a - 4b; a$

$+4b \qquad +4b$

$4b + u = -30a$

$\frac{}{-30} \quad \frac{}{-30} \quad \frac{}{-30}$

$-\frac{2b}{15} - \frac{u}{30} = a$

$a = -\frac{2b}{15} - \frac{u}{30}$

Solve for the indicated variable.

$2a\left[\frac{5}{2a} = -4r + 3d; a\right]$

$\frac{5}{2(-4r+3d)} = \frac{2a(-4r+3d)}{2(-4r+3d)}$

$a = \frac{5}{2(3d-4r)}$

Assignment:

CP Algebra II ~ Unit 1 Review

#1-14