Riddle
Algebra 2
Test #1 Review

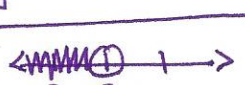
Solve. Graph. Write your **Interval Notation** when necessary.

1) $-6(n-8)=4(12-5n)+14n$ all real numbers

2) $\frac{2}{5}+\frac{2}{3}y=\frac{1}{2}$ $y=\frac{3}{20}$

3) $2|3x-5|=14$ $x=4 \quad x=-\frac{2}{3}$

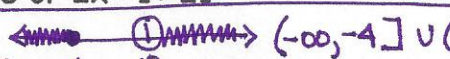
4) $5x+1<3x+7$ $x<3$ $(-\infty,3)$



5) $3(t-4)>2-t$ $t>3.5$ $(3.5,\infty)$

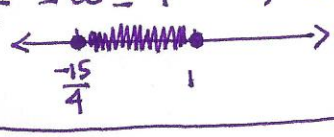
6) $|y-8|+7=3$ $\emptyset$

7) $5x+2\le -18$ or $2x+1>21$ $x\le -4$ or $x>10$

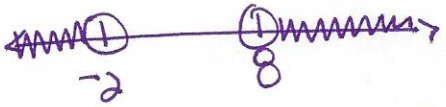


$(-\infty,-4]\cup(10,\infty)$

8) $-8\le 4w+7\le 11$ $\frac{-15}{4}\le w\le 1$ $\left[\frac{-15}{4},1\right]$

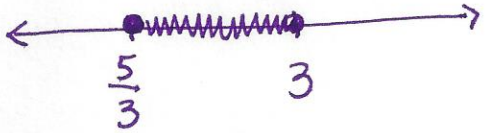


9) $|x-3|>5$ $x>8$ or $x<-2$



$(-\infty,-2)\cup(8,\infty)$

10) $|3w-7|\le 2$ $w\le 3$ and $w\ge\frac{5}{3}$



$\left[\frac{5}{3},3\right]$

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9) $|x-3|>5$

10) $|3w-7|\le 2$