Please have your homework on your desk. Calculator? Yes! DATE:
TSW solve inequalities.
QRQ:
An equation is solve as shown. Explain each step.


Four equations are solved as shown. Identify which equation is solve correctly. The ones that are not solved correctly, highlight where the mistake that was made.

An equation is solve as shown. Explain each step.
$3(x+5)-9=8(x-1)+2 x$
$3 x+15-9=8 x-8+2 x$$\quad$ Given Distributive $3 x+6=10 x-8 \quad$ CLT on same side $6=7 x-8 \quad \sum$ Moved variables together $\frac{14}{7}=\frac{7 x}{7}>$ Maned the constants together $2=x$

9 An equation is solved as shown. Between which two steps is an error made? Explain the error.

$$
\left.\begin{array}{l}
-4(x+7)=2(x-4) \\
\begin{array}{rl}
-4 x-28 & =2 x-8 \\
+4 x+4 x
\end{array} \\
-28
\end{array}\right)=-2 x-8 \quad \text { should } 6 x .
$$



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| $\begin{array}{ll} \mathrm{Ex4} & 10 \geq-2(\mathrm{x}-1) \end{array}$ | $\begin{array}{ll} 4 & 18 \leq-3(x+1) \end{array}$ |
| :---: | :---: |
| $\begin{array}{r}10 \geq-2 x+2 \\ -2 \times 2 \\ \hline\end{array}$ | $\begin{array}{r} 18 \leq-3 x-3 \\ +3+3 \end{array}$ |
| $\begin{aligned} & \frac{8}{-2} \geq \frac{-2 x}{-2} \\ & \text { If }-4 \leq x \end{aligned}$ | $\frac{21}{-3} \leq \frac{-3 x}{-3}$ |
| then $x \geq-4$ | then $x \leq-7$ |
|  |  |





Quiz on Multi-Step Equations?
After Quiz:
Complete circled problems on Solve Inequalities Handout

