

JANUARY 6, 2015

STARTER

5th
6th

Solve each equation for the given variable.

$$\begin{array}{l} n + 2 = -1 \\ -2 \quad -2 \\ \hline n = -3 \end{array}$$

$$\begin{array}{l} -2 = 3 - u \\ -3 \quad -3 \\ -5 = -u \\ 5 = u \end{array}$$

$$\begin{array}{l} 4 = w + (-2) \\ -2 \quad -2 \\ 2 = w \end{array}$$

1/6 Solving One-Step Add/Subtract Inequalities

Solve all three basically the same way...

- find the center
- find the number with the variable
- "undo" it to solve for the variable

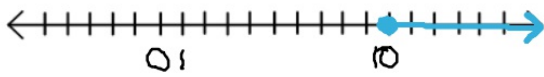
$$\begin{array}{r} x + 5 = 2 \\ -5 \quad -5 \\ \hline x = -3 \end{array}$$

$$\begin{array}{r} x + 5 < 2 \\ -5 \quad -5 \\ \hline x < -3 \end{array}$$

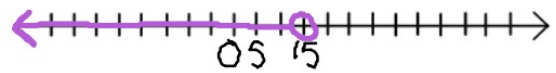
$$\begin{array}{r} x + 5 \geq 2 \\ -5 \quad -5 \\ \hline x \geq -3 \end{array}$$

Solve each then graph the answers on a number line.

$$\begin{array}{r} x - 15 \geq -5 \\ +15 \quad +15 \\ \hline x \geq 10 \end{array}$$

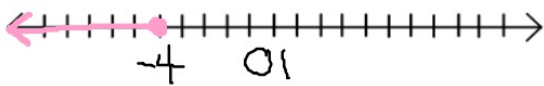


$$\begin{array}{r} 10 > v - 5 \\ +5 \quad +5 \\ \hline 15 > v \\ v < 15 \end{array}$$

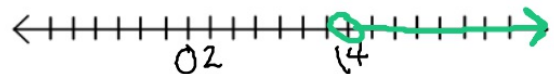


$$\begin{array}{r} 8 + h \leq 4 \\ -8 \quad -8 \\ \hline h \leq -4 \end{array}$$

Closed dot because it is greater than or **EQUAL** to

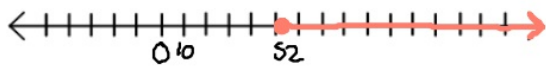


$$\begin{array}{r} -3 < p + (-17) \\ -3 \quad -17 \\ +17 \quad +17 \\ \hline 14 < p \\ p > 14 \end{array}$$

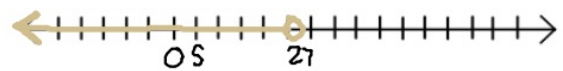


Solve each then graph the answers on a number line.

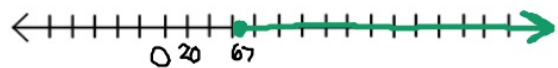
$$\begin{aligned} 79 - y &\leq 27 \\ -79 & \quad -79 \\ -y &\leq -52 \\ \downarrow \quad \downarrow \quad \downarrow & \\ y &\geq 52 \end{aligned}$$



$$\begin{aligned} 47 &> w + (+20) \\ -20 & \quad -20 \\ 27 &> w \\ w &< 27 \end{aligned}$$



$$\begin{aligned} -24 &\geq 43 - u \\ -43 & \quad -43 \\ -67 &\geq -u \\ \downarrow \quad \downarrow \quad \downarrow & \\ 67 &\leq u \\ u &\geq 67 \end{aligned}$$



HOMework

Lilac WS 2

DUE Wednesday