

# JANUARY 6, 2015

## STARTER

5<sup>th</sup>  
6<sup>th</sup>

Solve each equation for the given variable.

$$n + 2 = -1$$

$$-2 \quad -2$$

$$n = -3$$

$$-2 = 3 - u$$

$$-3 \quad -3$$

$$-5 = -u$$

$$5 = u$$

$$4 = w + (+2)$$

$$-2 \quad -2$$

$$2 = w$$

## 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

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

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

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

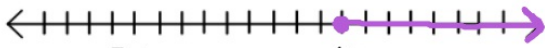
Solve each then graph the answers on a number line.

$$\textcircled{x} - 15 > -5$$

$$+15 \quad +15$$

$$x \geq 10$$

Closed because it has an equal line

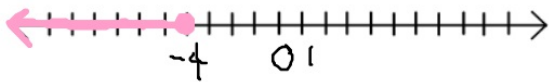


To the right since it points that way

$$8 + h \leq 4$$

$$-8 \quad -8$$

$$h \leq -4$$

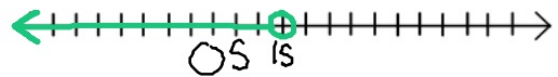


$$10 > v - 5$$

$$+5 \quad +5$$

$$15 > v$$

$$v < 15$$

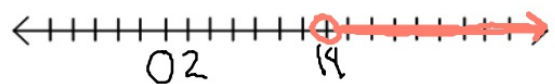


$$-3 < p + (-17)$$

$$+17 \quad +17$$

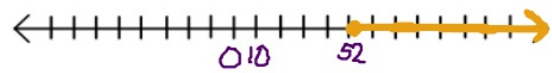
$$14 < p$$

$$p > 14$$

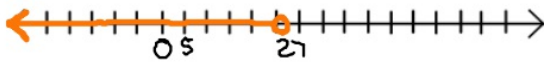


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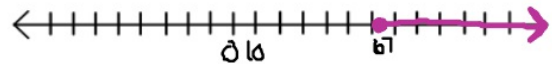
$$79 - y \leq 27$$
$$-79 \quad -79$$
$$\downarrow \quad \downarrow \quad \downarrow$$
$$-y \leq -52$$
$$y \geq 52$$



$$47 > w + (+20)$$
$$-20 \quad -20$$
$$27 > w$$
$$w < 27$$



$$-24 \geq 43 - u$$
$$-43 \quad -43$$
$$-67 \geq -u$$
$$\downarrow \quad \downarrow \quad \downarrow$$
$$67 \leq u$$
$$u \geq 67$$



# HOMework

Lilac WS2



DUE Wednesday