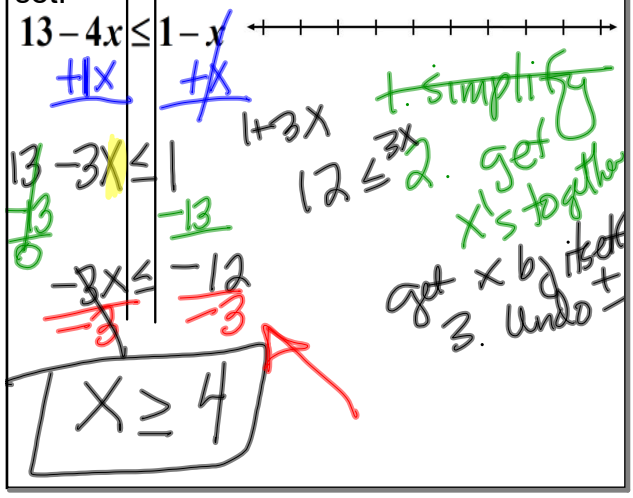
Starter 25 SEP 2018

Solve the inequality and graph the solution set.

$13 - 4x \leq 1 - x$



Solving Inequalities Using Multiplication and Division

- Multiplying/Dividing by a Negative Number

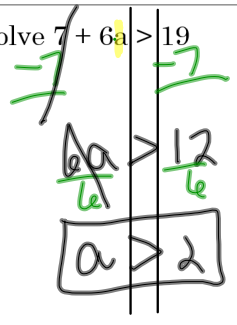
Solve $-2x \leq 10$. Graph the solution.

Solve $\frac{x}{3} \leq -4$. Graph the solution.

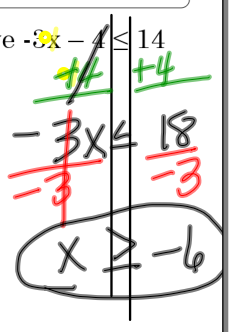
Solving Two – Step Inequalities

Using More Than Two Step

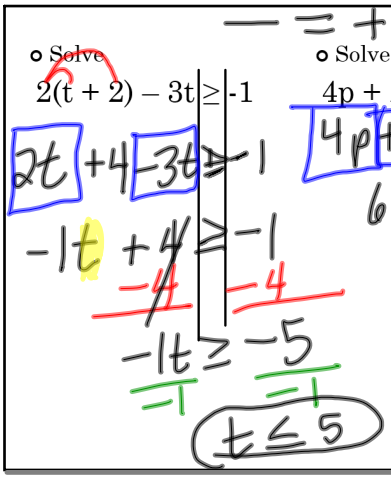
Solve $7 + 6a > 19$



Solve $-3x - 4 \leq 14$



Solve $2(t + 2) - 3t \geq -1$

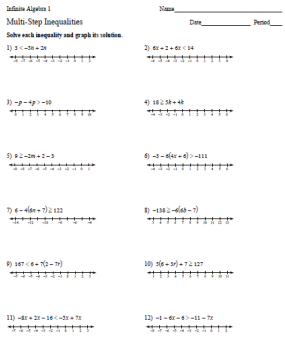


Solve $4p + 2(p + 7) < 8$

- Solve $15 \leq 5 - 2(4m + 7)$

- Solve $8 > 3(5 - b) + 2$

Worksheet Multi-Step Inequalities
Do the Odd numbers.



2) $6x + 2 + 6x < 14$

$6x + 2 + 6x < 14$

$12x + 2 < 14$

$-2 \quad -2$

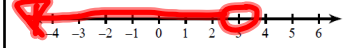
$12x < 12$

$\frac{12x}{12} < \frac{12}{12}$

$x < 1$

✓simplify
✓x's together
solve for x
Undo +/−
Undo ×/÷

6) $-3 - 6(4x + 6) > -111$



simplify

$-3 - 6(4x + 6) > -111$

$-3 - 24x - 36 > -111$

$-39 - 24x > -111$

$+39 \quad +39$

$-24x > -72$

$\frac{-24x}{-24} > \frac{-72}{-24}$

$x < 3$

$-4 > x$

$x < -4$