

Algebra 1 Week 6 Friday Warm Up

Skill 1: Solve, showing all steps.

1. $14 - (5c - 3) = 4c - 2(6c + 2) + 5c$

Skill 2: Write and solve a proportion to find the answer.

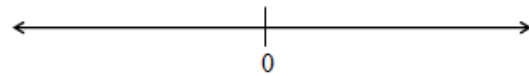
2. Cinderella sneezed 14 times in 3 days. If she sneezes at a regular rate, about how many times will she sneeze in a year? There are 365 days in 1 year.

Solve:

3. $\frac{2x+3}{x+1} = \frac{7}{3}$

Solve and graph

4. $7x - 3x + 5 - 12x < -19$

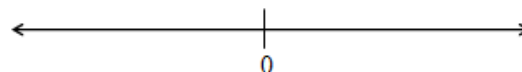
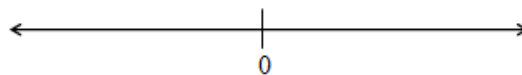


5. $A: x > 3$ $B: x \geq 4$ $C: x \leq -6$

graph:

a) *A and B*

b) *A or C*



remember:

And: overlap

Or: take both graphs

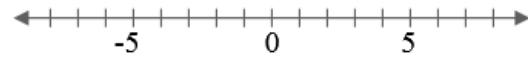
3-6.E

Compounding Inequalities



Solve each compound inequality. Graph the solutions on the number line AND state 3 numbers in the solution set. Show all your work!

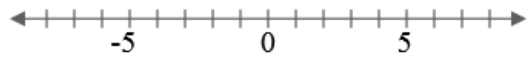
1. $4m - 5 > 7$ or $4m - 5 < -9$



Solution:

3 numbers in the solution set:

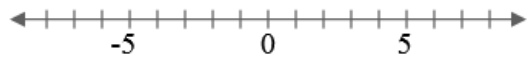
2. $-1 \leq x + 2 \leq 4$



Solution:

3 numbers in the solution set:

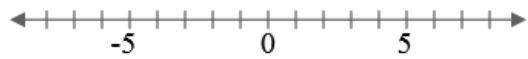
3. $y + 6 > -1$ or $y - 2 \leq 4$



Solution:

3 numbers in the solution set:

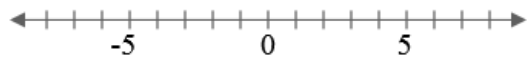
4. $2(5 - x) > 12$ and $7x > 4x + 9$



Solution:

3 numbers in the solution set:

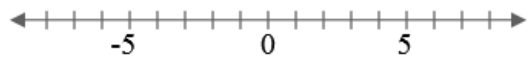
5. $-6 \leq 2x - 2 \leq 0$



Solution:

3 numbers in the solution set:

6. $3y + 11 \geq 14$ or $2y \leq 5y - 12$



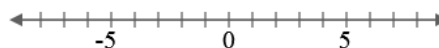
Solution:

3 numbers in the solution set:

A1 w6d4 3-6 more Compound Inequalities.notebook

HW

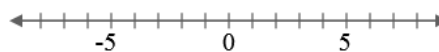
7. $3(c+4) < 12$ and $c+2 > 5$



Solution:

3 numbers in the solution set:

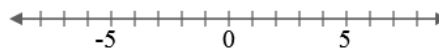
8. $3 - 2k \leq 7$ or $2k + 13 < 1$



Solution:

3 numbers in the solution set:

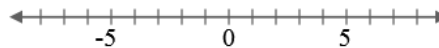
9. $2(3w+5) < 7$ or $2w+8 < 5w-1$



Solution:

3 numbers in the solution set:

10. $8 < 2(x+3) - 4 \leq 14$



Solution:

3 numbers in the solution set:

HW: 3-6.F + p 193: 1, 3, 7, 8, 12, 14, 17, 19, 22
 (notice that some say solve AND graph!)

Do you know HOW?

Write an inequality that represents each verbal expression or graph.

1. all real numbers y greater than or equal to 12



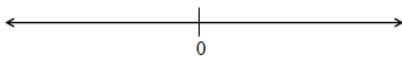
7. A cat weighs no more than 8 lb.

Solve each inequality. Graph the solutions.

8. $8d + 2 < 5d - 7$

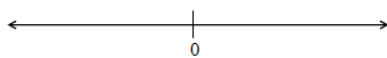
Solve each inequality, if possible. If the inequality has no solution, write *no solution*. If the solutions are all real numbers, write *all real numbers*.

19. $15f + 9 > 3(5f + 3)$



12. $5(3p - 2) > 50$

22. $8z + 5 - 2z \leq 3(2z + 1) + 2$



14. $6 \geq -\frac{4}{5}n$

