Classwork & HW: Solving Algebraic Inequalities

Aim: Solve algebraic inequalities with variables on both sides and graph it's solution set.

Directions:

Solve and Graph the solution set. Use pages 13-15 for #s 1 - 7 to show your work.

HW: complete #s 8 – 15 on pages 16-18.

Did You Hear About . . .

1	2	3	4	5	6	7	8
9.	10	11	12	13	14	15	??

Solve each inequality or problem. Write the word under the correct solution in the box containing the exercise number.

answers	1-7

x > 15

x > 13

$x \ge 44$	1 $7x + 2 > 4x$	+ 15

2
$$10 - 3x \ge 5x + 26$$

2
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HER
$$x > 4\frac{1}{3}$$
 $39x + 40 \le 15 - x$

$$x < -7$$
MONKEYS 4 $3(x - 7) > 18$

FRIENDS

WHO

x < -4

THE

$$x \ge 58$$
 5 $75 < -5(4x + 1)$

$$x \ge 8$$
WHEN
 $x \le -2$
6 $6(2x - 9) \ge 4 + 11x$

GIRL
$$x \ge 5$$
 7 8 - 3(4x - 1) \le -4

8
$$2(t+5) > 4t - 7(t+3)$$

$$9 -4(3t - 9) \ge 8(-8 - t)$$

10
$$14 - (9t - 2) < -t + 30$$

11
$$45 > 12t + 3(t - 8) - 6$$

12
$$5(8-2t) \le 2 + 16(4+t)$$

Date: Nov.21

$$t > -1\frac{3}{4}$$

$$t \le 0$$
AROUND

CIRCLES
$$t \le 25$$

$$t \ge -1$$
STARTED

$$t \le 3\frac{1}{3}$$

TOGETHER
$$t < 5$$

$$t > -6\frac{1}{5}$$

$$t < 4\frac{1}{2}$$
GOING

$$\begin{cases} t \ge -3 \\ \text{DIZZ} \end{cases}$$