Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Table #: \_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_ Date: \_\_\_\_\_\_\_

**4.4A Solving Two-Steps Inequalities\_Classwork**

*Objective: solve multi-step inequalities; solve real-life problems. CC.SS.7.EE.4b*

HW: textbook- 4.4B pg 150\_ #3-12 ALL

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| **WARM-UP**

|  |  |  |
| --- | --- | --- |
| 1. Solve for x

$$-2x<4.5$$ | 1. Solve for x

$$\frac{x}{-7}>-4$$ | 1. Solve for x.

 $3x+2=17$ |

 |

Example Problems:

|  |  |
| --- | --- |
| 1. Solve$ -5(x-4)\geq 10$.
 | 1. Solve$ -\frac{1}{3}b+4<12$.
 |
| 1. Solve the inequality

$$\frac{x}{-6}-8\leq -12$$ | 1. Solve the inequality

$$-b-2>8$$ |
| 1. Which graph represents the solution of

 $-7\left(x+3\right)\leq 28?$ |
| 1. The area of the rectangle is at most 30 square feet.

 **x – 2 ft****4 ft** |
| 1. Are the solutions to the following inequalities the same? Explain why or why not.

$$8x<-40 and -8x<40$$ |

**PRACTICE PROBLEMS**

Solve the inequality. Graph the solution.

 1.  2. 

 



 3.  4. $-2(x+1)\leq 6$

 