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

**4.3C Solving Inequalities Using Multiplication and Division\_Classwork**

*Objective: solve inequalities using multiplication or division; solve real-life problems. CC.SS.7.EE.4*

ACTIVITY: Complete the table. Decide which graph represents the solution of the inequality.

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| **EXAMPLE 1:****EXAMPLE 2:**  |



**\*\*NOTE\*\*** $-\frac{1}{2}=\frac{-1}{2}=\frac{1}{-2}$



**YOU TRY!**

|  |  |  |  |
| --- | --- | --- | --- |
| 1. $-\frac{x}{3}>-4$
 | 1. $0.5\leq -\frac{y}{2}$
 | 1. $-12\geq -\frac{6}{5}m$
 | 1. $-\frac{2}{5}h\leq -8$
 |



**YOU TRY!**

|  |  |  |  |
| --- | --- | --- | --- |
| 1. $-5z<35$
 | 1. $-2a>-9$
 | 1. $-1.5<-3n$
 | 1. $-4.2\geq -0.7w$
 |

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| **CRITICAL THINKING.** Are the solutions to the following inequalities the same? Explain why or why not.$$2x<-12 and -2x<12$$ |