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

**5.2C Graphing Proportional Relationships\_Classwork**

*Objective: use graphs to determine whether two ratios form a proportion; interpret graphs of proportional relationships. CC.SS.7.RP.2a, 2b, 2d.*

|  |  |
| --- | --- |
| **Determining PROPORTIONAL (Direct Variation)** | **Determining NON-PROPORTIONAL** |
| |  |  | | --- | --- | | **Table** |  | | **Graph** | Image result for graph | | |  |  | | --- | --- | | **Table** |  | | **Graph** | Image result for graph | |

***Use a graph to tell whether x and y are in a proportional relationship.***

|  |  |
| --- | --- |
| **Example 1.**    Image result for graph | **Example 2.**    Image result for graph |

***Interpreting the Graph of a Proportional Relationship***

|  |  |  |
| --- | --- | --- |
| **Example 3.**  The graph shows that the distance traveled by the Mars Rover Curiosity is proportional to the time traveled. Interpret each plotted point in the graph.   |  |  | | --- | --- | |  | (0, 0) =  (1, 1.5) =  (3, 4.5) = | |
| **Example 4.**  The graph shows that the earning in dollars is proportional to the hours Sally worked. Interpret each plotted point in the graph.   |  |  | | --- | --- | |  | (0, 0) =  (1, 15) =  (4, 60) = | |
| **Example 5.**  The graph shows that the height of the hot air balloon is proportional to the seconds it is in the air. Interpret each plotted point in the graph.   |  |  | | --- | --- | |  | (0, 0) =  (1, 5) =  (6, 30) = | |

**TEACHER’S NOTES**



