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***

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| --- | --- | --- |
| **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) = |

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**TEACHER’S NOTES**



