**Function Applications – Travel Time**

Leon’s relatives all had to travel 150 miles to Grandma’s home, but they each travelled different amounts of time. **Create a function that models** the travel time ***t*** (in hours) based on the velocity ***v*** (in miles per hour) that a relative travelled.

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| 1. Independent variable: 2. Dependent variable: 3. Write the equation for this function: 4. Use function notation to express the function: 5. We can say \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a   function of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.   1. Find the travel time of Uncle Jim who travelled at 60 mph. Use function notation.      1. Find the velocity of Cousin Tina who took 4 hours   to get to Grandma’s.   1. What are the domain and range of this function? | Complete the table below:   |  |  |  | | --- | --- | --- | | **Relative** | **Velocity (mph)** | **Travel Time**  **(hours)** | | Great Grandpa | 30 |  | | Aunt Violet | 45 |  | | Uncle Harry | 60 |  | | Cousin Will | 75 |  |   Graph the function on the axes below.  Scale and label the axes.  C:\Users\TRAVEL\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\G5RXD1SG\highway version c.png |

1. Identify the shape of this graph using the Parent Function Reference Sheet.