

Name _____

Date _____

Flight Times and Distances

City-to-City Distances & Airline Flight Times

| City-to-city distance (mi) | Flight time (hr) |
|----------------------------|------------------|
| 200 | 1.0 |
| 300 | 1.2 |
| 400 | 1.4 |
| 500 | 1.6 |

- (1) How does flight time between cities depend on city-to-city distance? **Answer by creating a function equation with two variables** that models the data in the table.
- (2) **Use your function** to answer:
- What is the time of flight if two cities are 1,000 mi apart?
 - What is the city-to-city distance if the flight took 2 hr?
- (3) Use your function and a spreadsheet to extend the table.