

CHAPTER
5 **Project**
Take Flight

Activity 1: Flight Speed *Use with Lesson 5-5*

The distance an airplane travels varies directly with its flying time. The aircraft's cruising speed is the constant of variation.

1. Research the cruising speeds for the following aircrafts, and use the information you find to complete the table below.

Aircraft	Cruising Speed (mi/h)
737	
757	
MD-80	
DC-10	

2. Write an equation for each aircraft that gives the distance y that the aircraft will travel in x hours.

3. Sketch a graph of the direct variation for each aircraft.

4. Use your graphs to determine about how far each aircraft will have flown after 2 hours.

5. Plan a trip around the world! Pick at least five cities to visit, and choose one of the aircrafts from the table. Make an itinerary for your trip. List each city, the approximate distance traveled, and the approximate flight time. Determine the total time for your trip.
