

**Discovering GIS and ArcGIS**  
**Chapter 8**

**Name:** \_\_\_\_\_

**Question 8.1:** What is the geodesic distance between Fulton County Airport and the Toledo Express Airport?

**Question 8.2:** How many airport complexes are in Cuyahoga County?

**Question 8.3:** How many airport complexes are in Mahoning County?

**Question 8.4:** If you lived in Uniopolis, OH, what airport complex would be the closest to you and how far away would it be (give this value in miles)?

**Question 8.5:** What populated place is the farthest away from an airport complex and how far away is it (give this value in miles)?

**Question 8.6:** Why (specifically) was a value of 0 computed for the distance from Richmond Heights to an airport complex? (*Hint:* You may want to locate Richmond Heights on the map and zoom in closely to examine it to help answer this question.)

**Question 8.7:** How many counties in Ohio have a population of greater than 50,000 persons?

**Question 8.8:** How many places are within the boundaries of a county with more than 50,000 persons?

**Question 8.9:** How many places are within an Ohio county with more than 50,000 persons and also within 0.25 miles of a major road?

**Question 8.10:** How many places are within an Ohio county with more than 50,000 persons, within 0.25 miles of a major road, and more than 35 miles away from an existing airport complex?

**Question 8.11:** What are the names of these places and which of them are classified as cities and which are classified as villages?

**Question 8.12:** In which county is each of these places located?

**Question 8.13:** For the potential places, what is the closest airport to each one of them and what is the distance (give this value in miles) that each airport is away from the place?

**Question 8.14:** How many Ohio airport complexes are within 100 miles of the chosen site?

**Question 8.15:** How many populated places are within 35 miles of the chosen site?

**Step 8.6:**

Print a layout or publish a Web map of the final results.