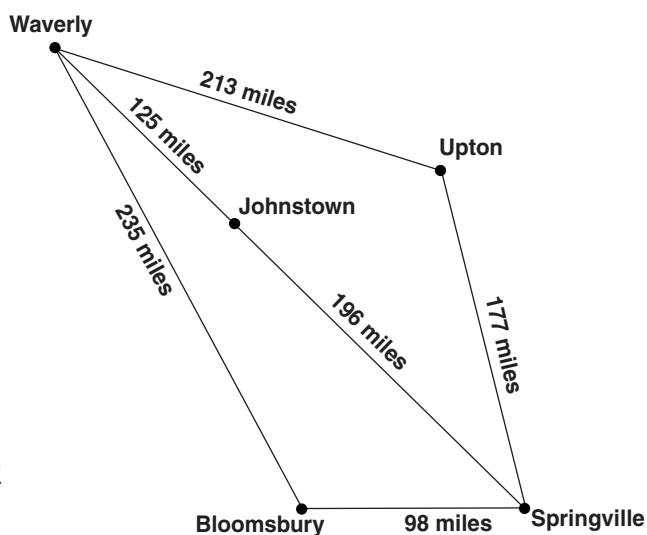


Challenge

Using Maps

You can find the shortest distance between two cities. If you use a map that shows the number of miles between cities, you can find a route that is the least number of miles long.



- How many routes can you find to get from Waverly to Springville? ____
- One of the possible routes is from Waverly to _____ to Springville. Name the other possible routes to get from Waverly to Springville.
 - from Waverly to _____ to Springville
 - from Waverly to _____ to Springville
- Which route do you think is the shortest?

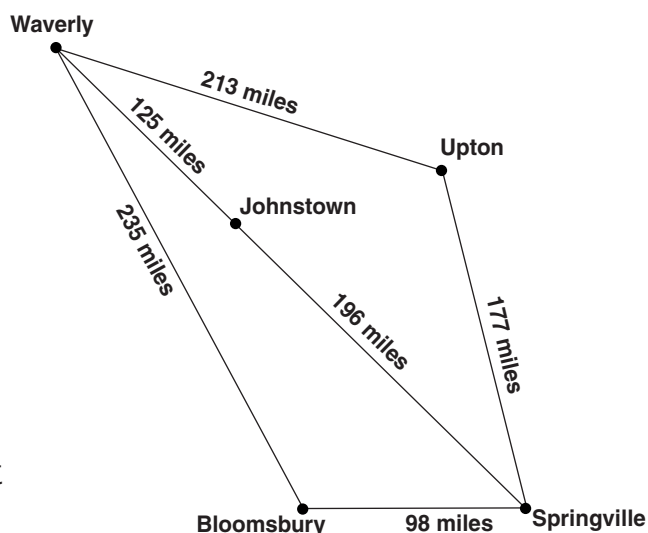
- Find the shortest route.

- Extend It** The city of Sunnyvale is exactly halfway between Bloomsbury and Springville. If you decide to go on a road trip from Waverly to Sunnyvale and want to go through Upton, how many miles will you travel? Show your work.

Challenge

Using Maps

You can find the shortest distance between two cities. If you use a map that shows the number of miles between cities, you can find a route that is the least number of miles long.



1. How many routes can you find to get from Waverly to Springville? 3

2. One of the possible routes is from Waverly to Upton to Springville. Name the other possible routes to get from Waverly to Springville.

- from Waverly to Johnstown to Springville
- from Waverly to Bloomsbury to Springville

Order of answers will vary.

3. Which route do you think is the shortest?

Answers will vary. Sample answer: from Waverly to Johnstown to Springville.

4. Find the shortest route.

Waverly to Johnstown to Springville is the shortest, 321 miles.

5. **Extend It** The city of Sunnyvale is exactly halfway between Bloomsbury and Springville. If you decide to go on a road trip from Waverly to Sunnyvale and want to go through Upton, how many miles will you travel? Show your work.

439 miles. Check students' work.