

Geospatial Lab Application 1.1

Name: _____

Introduction to Geospatial Concepts and Google Earth

Question 1.1:

By being able to view the Corn Palace from above and from standing on the ground in front of it, what details from the aerial view can help identify just what the building is? (You may need to switch back and forth between the aerial view and the street view to answer this question.)

Question 1.2:

By viewing the expanse of South Dakota between Mitchell and Wall, there are many possible roads between the two. Why do you suppose GEP chose this particular path to go from the Corn Palace to Wall Drug?

Question 1.3:

Based on the route that GEP calculated, what is the driving distance (and approximate time equivalent) to get from the Corn Palace to Wall Drug?

Question 1.4:

What is the elevation for this particular overlook in Badlands National Park?

Question 1.5:

How does the terrain modeling (with the tilt function) aid in the visualization of the Badlands?

Question 1.6:

Note that even though the graphic contains the locations of Mount Rushmore, the outline of the park, and information concerning location (including latitude, longitude, and elevation) at the bottom, it doesn't have any spatial reference for measurements. Why is this?

Question 1.7:

What is the measured distance between the rear of the amphitheater and the top of the memorial (keep in mind this is the ground distance, not a straight line between the two points)?

Question 1.8:

Even with Terrain turned on and the view switching over to a perspective, why can't the presidents' faces on the side of the memorial be seen?

Question 1.9:

What are the latitude and longitude coordinates of the entrance to the Mount Rushmore parking area?

Question 1.10:

What is located at the following geographic coordinates: latitude 43.836584, longitude -103.623403?

Question 1.11:

What is located at the following geographic coordinates: latitude 43.845709, longitude -103.563499?

Question 1.12:

How does the 360-degree image of the Badlands aid in visualizing the scenery (keep in mind this image has been tied to a particular location)?