

Road Scholar B - Road Scholar - December 19 SO Practice - 12-19-2020

1. (5.00 pts)

The location of a city is 44 degrees, 59 minutes, 11.9616 seconds North and 93 degrees, 15 minutes, 29.2788 degrees West. What is the latitude in decimal form? Round to four decimal places if necessary.

2. (5.00 pts)

The location of a city is 30 degrees, 15 minutes, 59.9976 seconds North and 97 degrees, 43 minutes, 59.9880 degrees West. What is the longitude in decimal form? Round to four decimal places if necessary.

3. (5.00 pts)

Your destination is 32.2 km away. If your average speed is 40 mph, how many minutes will it take you to reach your destination? Round to one decimal place if necessary.

4. (2.00 pts) If the scale of a map is 1:2400, then 1 cm = 78.74 ft.

True False

5. (2.00 pts) If the scale of a map is 1:10000, then 1 in = 0.1578 miles.

True False

6. (1.00 pts) The Mercator projection is an equal-area map.

True False

7. (1.00 pts) Verbal scales scale with the map.

True False

8. (1.00 pts) Representative fractions scale with the map.

- True False

9. (1.00 pts) The Public Land Survey System predates the land division method called long-lots.

- True False

10. (1.00 pts) There are 36 sections in a township.

- True False

11. (1.00 pts) Magnetic North differs from Geographic North most of the time.

- True False

12. (1.00 pts) Which ocean borders the western United States?

- A) Atlantic
 B) Indian
 C) Arctic
 D) Pacific

13. (1.00 pts) What is the capital of the United States?

- A) Annapolis, M.D.
 B) Philadelphia, P.A.
 C) New York City, N.Y.
 D) Washington, D.C.

14. (1.00 pts) What is the art of drawing maps called?

- A) Geographic Information Science
 B) Cartography
 C) Geography
 D) Surveying

15. (1.00 pts) If you were planning a hiking trip, which type of map would you want to bring?

- A) Thematic
 B) Topographical
 C) Atlas
 D) Climatic

16. (1.00 pts) What mountain range is found in the eastern United States?

- A) Sierra Nevada
- B) Rocky Mountains
- C) Appalachian Mountains
- D) None of the above

17. (1.00 pts) What major river terminates near New Orleans?

- A) Missouri
- B) Colorado
- C) Rio Grande
- D) Mississippi

18. (1.00 pts) How many states are in the contiguous United States?

- A) 48
- B) 49
- C) 50
- D) 51

19. (1.00 pts) Into which body of water does the Mississippi river terminate?

- A) Pacific Ocean
- B) Atlantic Ocean
- C) Caribbean Sea
- D) Gulf of Mexico

20. (3.00 pts) There are ___ seconds in a minute, ___ minutes in a degree, and ___ seconds in a degree.

21. (1.00 pts) On which common map projection does Antarctica look far more massive than it actually is?

22. (2.00 pts) A pilot is flying at a _____ of 240 degrees. They fly back in the exact opposite direction, _____ degrees.

23. (1.00 pts) Lines of _____ converge at the poles.

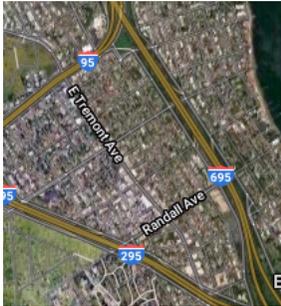
24. (1.00 pts) What is the largest state in the United States?

25. (1.00 pts) What is the smallest state in the United States?

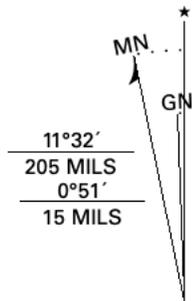
26. (1.00 pts) Soundings are measurements of _____.

27. (1.00 pts) Contour lines indicate areas of _____ elevation.

28. (1.00 pts) What kind of roads are represented by the numbers 95, 695, and 295?



29. (1.00 pts) What does this image represent?



30. (1.00 pts) What does this symbol represent?



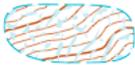
- A) woodland
- B) marshland
- C) scrubland
- D) mangrove

31. (1.00 pts) What kind of road does this symbol represent?



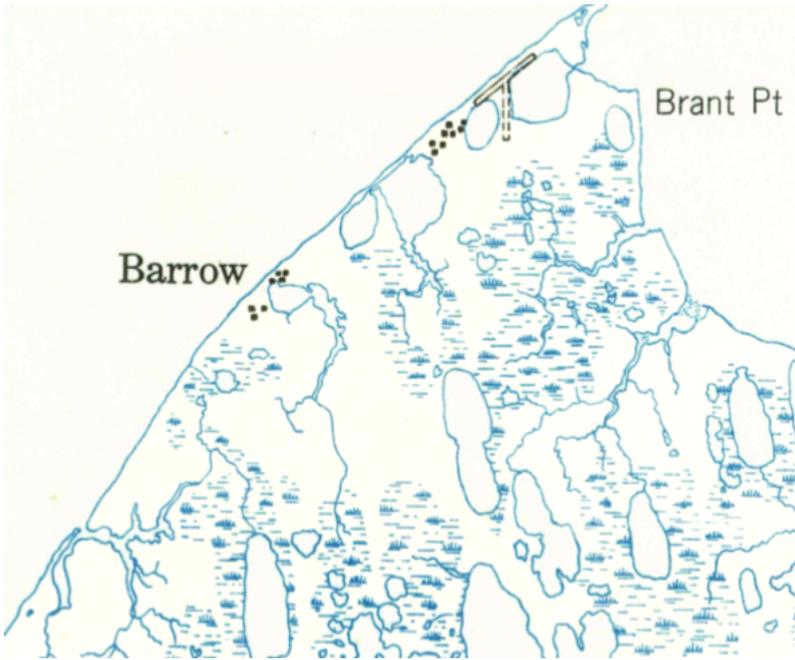
- A) paved
- B) gravel
- C) dirt
- D) unspecified

32. (1.00 pts) What does this symbol represent?



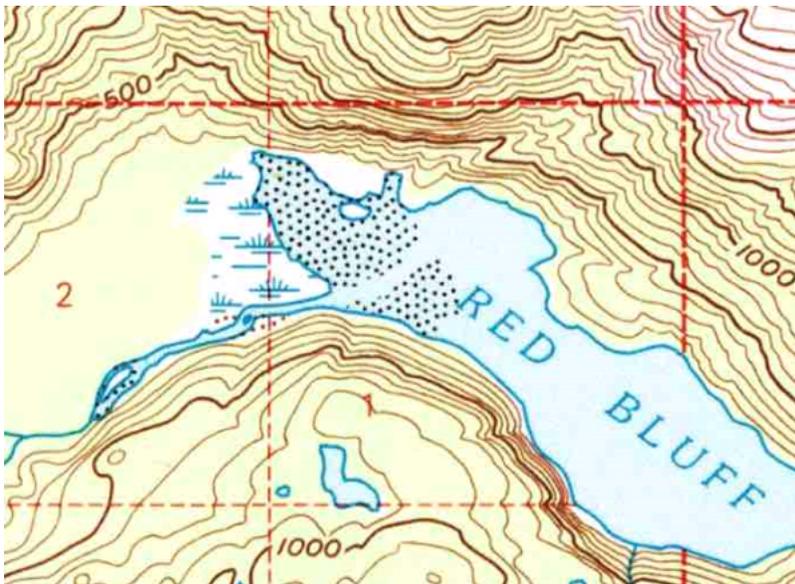
- A) dry pond
- B) glacial advance
- C) intermittent lake
- D) glacial retreat

33. (10.00 pts) Use the below image to answer the following question.



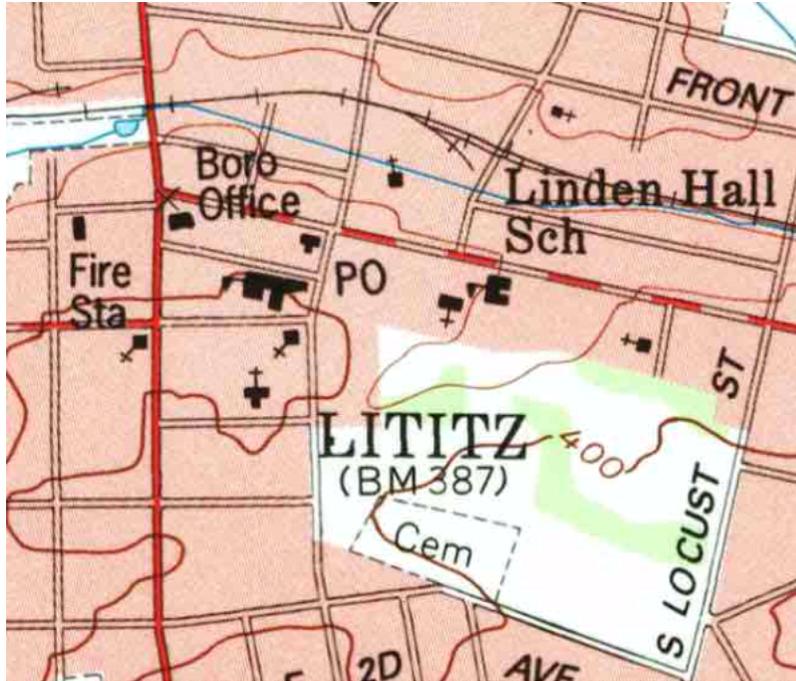
What can you infer about the topography of this land? Describe the features, manmade and natural, that you can identify.

34. (10.00 pts) Use the below image to answer the following question.



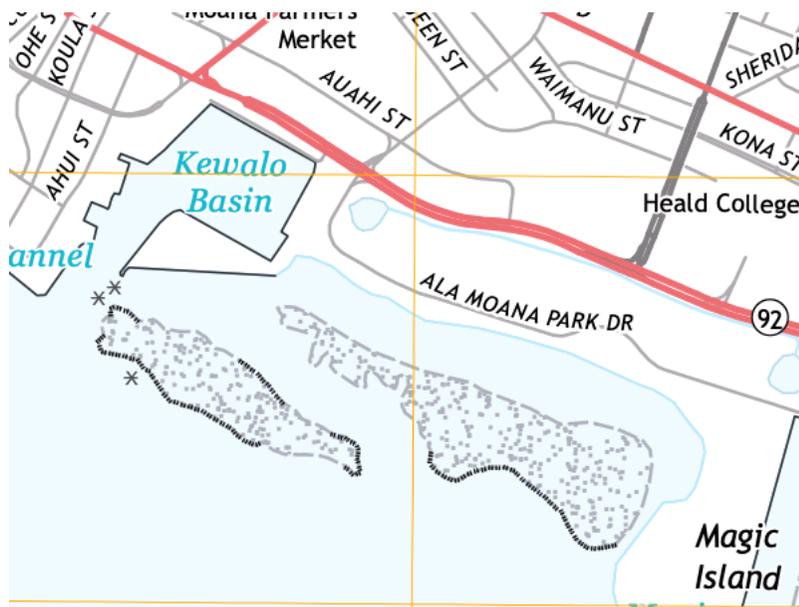
Describe the topography of this region. What features do you observe?

35. (10.00 pts) Use the below image to answer the following question.



Describe the topography of this region. What features can you identify?

36. (10.00 pts) Use the below image to answer the following question.



Describe the topography of the region. What features can you identify?

37. (5.00 pts) What are five important features of a "good" map?

38. (10.00 pts) Describe how to draw a topographic profile, given a topographic map.

39. (10.00 pts)

The peak of a mountain is at an elevation of 5400 ft. If the base of the mountain is at an elevation of 100 ft and the straight line horizontal distance between the base and the peak is 0.20 miles, what is the gradient? Round to two decimal places if necessary.

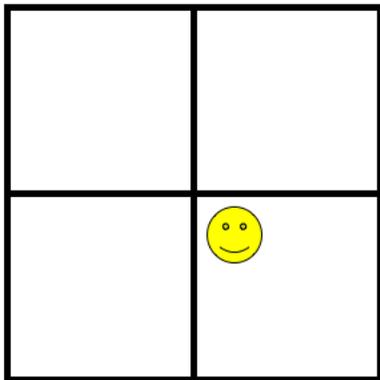
40. (5.00 pts) Around what time was this satellite picture acquired?



41. (1.00 pts) What land division system was used here?

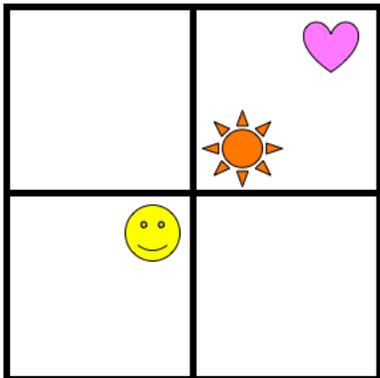


42. (5.00 pts) Describe the location of the smiley-face in terms of the PLSS. Be specific.

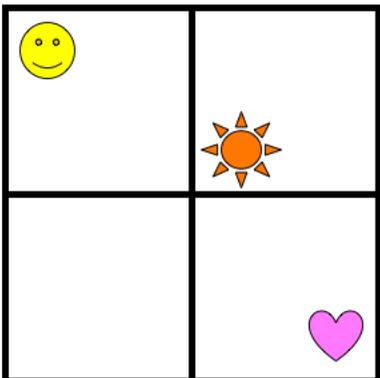


43. (5.00 pts) Consider the following "maps". Choose the map that has the heart in the NE1/4 NE1/4, the smiley-face in the NE1/4 SE1/4, and the sun in the SE1/4 NE1/4.

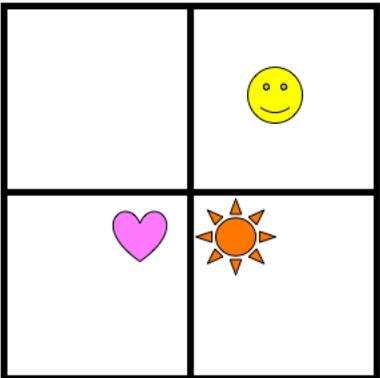
Map 1



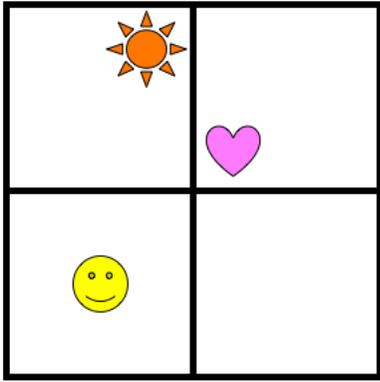
Map 2



Map 3

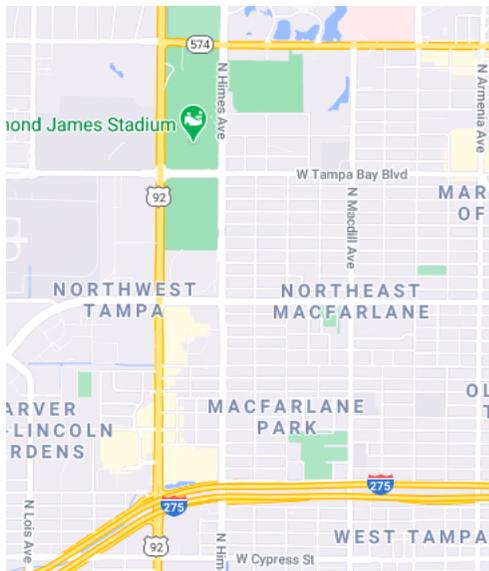


Map 4



- A) Map 1
- B) Map 2
- C) Map 3
- D) Map 4

44. (2.00 pts) What kind of road is represented by the numbers "574"?



45. (8.00 pts) What is: the contour interval, the lowest elevation, and the highest elevation? What kind of feature is this?

