Road Scholar Division B Rustin Invitational 2018

**Part 1: AAA Road Map - PA and NJ**

You are at Double Trouble State Park, NJ and you want to travel to Atlantic City , NJ. What direction are you going to go? **1**  What road will should you be traveling on? **2**  What is special about this road? **3** You will follow this road to exit 38. How many miles have you traveled? **4** What road will you follow into Atlantic City? **5** You need to stop at the Amtrak station to pick up your friend. You decide you want to see the Absecon Lighthouse. What is the Shortest way to get there? **6** The lighthouse will be on your right. After spending the afternoon at the lighthouse you will be flying from the Atlantic city Airport to Lancaster, PA. As you fly to Lancaster you will cross a major river between PA and NJ. What is the name of this river? **7**  You will be flying in a Cessna 172 which goes 188 mph. What is the distance you will be traveling? **8** . How long will it take to get to Lancaster flying? **9**. How long would it take if you were driving from Atlantic City **10** and how many miles **11**  based on the driving distances map.

Once you have arrived in Lancaster you are going to rent a car and drive towards the Choo-Choo barn. What direction will you be going? **12** On what number and type of route is this located? **13** You are going to need to find a place to stay for the night. List the campgrounds from closest to farthest by the city name from the Choo- Choo Barn. **14** The next morning you are going to travel to Pittsburgh, PA. How long will it take you to get there and how far will you drive? **15** What road is the best one to get to Pittsburgh? **16**  Is this route a state or federal route? **17**  Is this route a free route or a toll route? **18**. Which road is the best to get from Lancaster to the road you will be taking to Pittsburgh **19**. These routes are given either odd or even numbers. Odd numbered routes run **20** and **21**. Even numbered routes run **22** and **23**.

You need to go to the Pittsburgh airport to pick up your Parents. You are going to head towards town to visit different colleges and universities. Name 6 different colleges and Universities you may visit.  **24**. You are going to get on interstate 376 towards Pittsburg. What direction are you going? **25** How many miles is it to the tunnel on 376? **26** You are going to go through what tunnel  **27** then over the **28** bridge past what park? **29** What 3 rivers converge at this park? **30**. You will bear left onto what road? **31** . You will then cross the river on what bridge? **32**

Tomorrow you are going to fly out to California to see Mount Shasta. You will then take a helicopter to go see Mount Shasta in person.

**Part 2A: Mt. Shasta Quadrangle**

You are flying into towards Mt. Shasta and enter from the west. This is quadrangle **33**. The first lake you will come to is **34**. This lake has what kind of contour line surrounding it **35**. Beside the lake is Shastina Mountain which has an elevation of **36**.

The plane then takes you at an azimuth of 209° for 1.45 km. What feature do you find here **37**? What is the PLSS quadrant of this location on the map? **38.**  If you you were to drive to this location what kind of road would you follow. **39** You then follow Avalanche Gulch upstream which is in what direction **40**? Once you reach the end you are in what PLSS quadrant **41**. From here travel to the principal point at an azimuth of 55° for 2.16 km. What is the principal point here ? **42**

The next place we are going is PLSS T42 R3W at the center of sections 15, 16, 21, and 22. What feature do you find here?  **43** What is its approximate elevation here? **44**. From here you are going to go to Sulphur Hot Springs. How far is this on the map **45** and on the ground **46**?

**Part 2B: Individual maps**

Map 1

47. What feature is seen in the red box?

48. What makes you think this? Give 3 details

Map 2

49. What Feature is shown in this picture?

50. Why is the area surrounding this feature have a different landscape than the areas beyond the

feature? **Bonus: Do you know the name of this feature? (Not in PA)**

Map 3

51. What feature is in the orange box?

Map 4

52. What do you think is in the red box? **Bonus: Do you know the name of this place? (In PA)**

53. What do you think is in the blue box?

54. Give 3 reasons for this guess.

Map 5

55. What land feature is shown in the orange box?

Maps 6 and 7

* You are going to be comparing the two maps given from 1947 and 1999

56. What is a majority of the land being used for in 1947?

57. What is a majority of the land being used for in 1999?

58. What problems can be caused by these changes? Give 3 examples.