Name:

Date:

Class & Period:

**Ecoregions--Student Answer Sheet**

***Insert your answers (replacing the lines) to the questions using blue text and comic sans (or other easy to read handwriting style) font.***

Q1: Print Screen of Color-coded temperature map:

Q2. Which region of the country shows the most variation in average temperatures? What might cause this change in such a comparatively short space?

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***Return to the tutorial packet until you come to the next question.***

Q3. Insert a screen grab of your map (showing precipitation data with no outlines and the boundary layer “windows”.

***Return to the tutorial packet until you come to the next question.***

Q4. What is the average temperature where you live: \_\_\_\_\_\_\_\_\_\_\_In the northeast tip of Minnesota? \_\_\_\_\_\_

Identify one place in the US which has a colder temperature that the northeast tip of Minnesota. \_\_\_\_\_\_\_\_\_\_\_\_\_

***Return to the tutorial packet until you come to the next question.***

Q5. Your map should now show all areas of the country which have average temperatures greater then 70°F outlined in blue. Insert a screen grab showing your map with the selection outlined.

Q6. Which states contain these? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

***Return to the tutorial packet until you come to the next question.***

Q7a. Temp of Home Region: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Q7b. Other states with similar temperatures: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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***Return to the tutorial packet until you come to the next question.***

Q8. What conditions might account for the variations you see? What other information would you need to confirm your hypothesis?

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Q9. What patterns do you see in the temperature bands that include your area?

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Q10. Where are the hottest parts (on average) of the continental United States? The coldest?

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***Return to the tutorial packet until you come to the next question.***

Extension #1: If completed, insert screen grabs and summary paragraph below:  
***Return to the tutorial packet until you come to the next question.***

Before looking more closely at your local area, try to describe the broad national patterns. In particular, notice what happens in a few major areas:

Q11. Moving inland from the Gulf of Mexico: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Q12. Moving from west to east starting in the Rocky Mountain chain: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Q13. Moving inland from the northwest coast, comparing the coast to the inland regions of the same states:

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***Return to the tutorial packet until you come to the next question.***

Q14. What is the average precipitation in your home region? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Q15. Use “select by attributes” to determine other areas of the country with similar precipitation amounts and list those here: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Q16. Which regions of the country are the wettest? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Q17. Which regions are the driest? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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***Return to the tutorial packet until you come to the next question.***

Q18. Insert a screen grab of your map showing the domains as requested.

Q19. In which ecoregion domain do you live? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Q20. Based on what you explored previously with the temperature and precipitation maps, does Bailey’s classification surprise you? Why or why not? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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***Return to the tutorial packet until you come to the next question.***

Q21. Paste a screen grab of your map (showing divisions).

Q22. Identify the divisions that occur in your home state: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**Extension #2 Extra Challenge** If you undertake this challenge, insert a screen grab of your map zoomed to an area showing the provinces.

***Return to the tutorial packet until you come to the next question.***

Q23. Screen Grab of Statistics Window—Dry Domain Average Yearly Temperature:

Q24. Screen Grab of Statistics Window—Dry Domain Average Yearly Precipitation:

Q25. Table for Domain Comparison:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Domain** | **Temperature** | | | | **Precipitation** | | | |
| **Count** | **Minimum** | **Maximum** | **Mean** | **Count** | **Minimum** | **Maximum** | **Mean** |
| **Dry** |  |  |  |  |  |  |  |  |
| **Humid Temperate** |  |  |  |  |  |  |  |  |
| **Humid Tropical** |  |  |  |  |  |  |  |  |
| **Polar** |  |  |  |  |  |  |  |  |

Q26. Using the data from the table, describe how each domain is similar to and different from the others.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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***Return to the tutorial packet until you come to the next question.***

Q27: Divisions Statistics Table

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Division** | **Temperature** | | | | **Precipitation** | | | |
| **Count** | **Minimum** | **Maximum** | **Mean** | **Count** | **Minimum** | **Maximum** | **Mean** |
|  |  |  |  |  |  |  |  |  |
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Q28. Using the data from the table, describe how each division is similar to and different from the others.

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***Return to the tutorial packet until you come to the next question.***

**Extension #3:**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Province** | **Temperature** | | | | **Precipitation** | | | |
| **Count** | **Minimum** | **Maximum** | **Mean** | **Count** | **Minimum** | **Maximum** | **Mean** |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
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Using the data from the table, describe how each Province is similar to and different from the others.

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