Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Block\_\_\_\_\_\_\_

**Constructing Climate Graphs**

|  |  |
| --- | --- |
| **° C** | **°F** |
| -30 | -22 |
| -20 | -4 |
| -10 | 14 |
| 0 (Freezing) | 32 |
| 10 | 50 |
| 20 | 68 |
| 30 | 86 |

Use the following data to construct two separate climate graphs on the climate graphs worksheet.  Once you have constructed the climate graphs you will predict which of the six biomes the information was obtained from and answer a few questions about the biome.

***Don’t forget… oC   =  Temperature (line graph)***

***mm   =  Precipitation (bar graph),***

***Also put a horizontal dashed line at the freezing point on each***

***graph!***

**Climate Data: Unknown 1**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Jan.** | **Feb.** | **Mar.** | **Apr.** | **May** | **June** | **July** | **Aug.** | **Sept.** | **Oct.** | **Nov.** | **Dec.**  Avg. Temp \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Yearly Rainfall:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **oC** | 22.0 | 25.0 | 29.0 | 33.0 | 38.0 | 44.0 | 45.0 | 44.0 | 40.0 | 34.0 | 27.0 | 22.0 |
| **mm** | 3.7 | 3.5 | 1.2 | 1.6 | 0.5 | 0.1 | 0.0 | 0.5 | 0.2 | 1.2 | 0.5 | 2.7 |

**Climate Data: Unknown 2**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Jan.** | **Feb.** | **Mar.** | **Apr.** | **May** | **June** | **July** | **Aug.** | **Sept.** | **Oct.** | **Nov.** | **Dec.**  Avg. Temp \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Yearly Rainfall:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **0C** | 26.7 | 26.2 | 26.9 | 26.2 | 26.1 | 26.3 | 26 | 26.1 | 26.2 | 26.5 | 26.8 | 25.8 |
| **mm** | 275.0 | 271.0 | 326.0 | 281.0 | 195.0 | 205.0 | 152.0 | 129.0 | 126.0 | 106.0 | 166.0 | 268.0 |

**Climate Data: Unknown 3**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Jan.** | **Feb.** | **Mar.** | **Apr.** | **May** | **June** | **July** | **Aug.** | **Sept.** | **Oct.** | **Nov.** | **Dec.**  Avg. Temp \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Yearly Rainfall:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **0C** | -25.3 | -27.5 | -25 | -18.1 | -6.5 | 2.7 | 4.5 | 4 | -2.3 | -10.4 | -16 | -23.5 |
| **mm** | 1.0 | 1.0 | 0.0 | 0.0 | 0.0 | 18.0 | 25.0 | 55.5 | 62.0 | 15.0 | 3.0 | 2.0 |

**Location: Unknown 1**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| mm |  |  |  |  |  |  |  |  |  |  |  |  | oC |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 95 |  |  |  |  |  |  |  |  |  |  |  |  | 40 |
| 90 |  |  |  |  |  |  |  |  |  |  |  |  | 36 |
| 85 |  |  |  |  |  |  |  |  |  |  |  |  | 32  **Unknown 1**  Name of Biome:  Reasoning: |
| 80 |  |  |  |  |  |  |  |  |  |  |  |  | 28 |
| 75 |  |  |  |  |  |  |  |  |  |  |  |  | 24 |
| 70 |  |  |  |  |  |  |  |  |  |  |  |  | 20 |
| 65 |  |  |  |  |  |  |  |  |  |  |  |  | 16 |
| 60 |  |  |  |  |  |  |  |  |  |  |  |  | 12 |
| 55 |  |  |  |  |  |  |  |  |  |  |  |  | 8 |
| 50 |  |  |  |  |  |  |  |  |  |  |  |  | 4 |
| 45 |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 40 |  |  |  |  |  |  |  |  |  |  |  |  | -4 |
| 35 |  |  |  |  |  |  |  |  |  |  |  |  | -8 |
| 30 |  |  |  |  |  |  |  |  |  |  |  |  | -12 |
| 25 |  |  |  |  |  |  |  |  |  |  |  |  | -16 |
| 20 |  |  |  |  |  |  |  |  |  |  |  |  | -20 |
| 15 |  |  |  |  |  |  |  |  |  |  |  |  | -24 |
| 10 |  |  |  |  |  |  |  |  |  |  |  |  | -28 |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  | -32 |
| 0 | J | F | M | A | M | J | J | A | S | O | N | D | -36 |

**Location: Unknown 2**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| mm | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | oC | |
|  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |  | |
| 380 | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | 40 | |
| 360 | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | 36 | |
| 340 | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | 32  **Unknown 2**  Name of Biome:  Reasoning: | |
| 320 | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | 28 | |
| 300 | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | 24 | |
| 280 | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | 20 | |
| 260 | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | 16 | |
| 240 | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | 12 | |
| 220 | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | 8 | |
| 200 | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | 4 | |
| 180 | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | 0 | |
| 160 | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | -4 | |
| 140 | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | -8 | |
| 120 | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | -12 | |
| 100 | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | -16 | |
| 80 | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | -20 | |
| 60 | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | -24 | |
| 40 | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | -28 | |
| 20 | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | -32 | |
| 0 | | J | | F | | M | | A | | M | | J | | J | | A | | S | | O | | N | | D | -36 | |
|  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |  |  | |  | | |

**Location: Unknown 3**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| mm |  |  |  |  |  |  |  |  |  |  |  |  | oC |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 95 |  |  |  |  |  |  |  |  |  |  |  |  | 40 |
| 90 |  |  |  |  |  |  |  |  |  |  |  |  | 36 |
| 85 |  |  |  |  |  |  |  |  |  |  |  |  | 32  **Unknown 3**  Name of Biome:  Reasoning: |
| 80 |  |  |  |  |  |  |  |  |  |  |  |  | 28 |
| 75 |  |  |  |  |  |  |  |  |  |  |  |  | 24 |
| 70 |  |  |  |  |  |  |  |  |  |  |  |  | 20 |
| 65 |  |  |  |  |  |  |  |  |  |  |  |  | 16 |
| 60 |  |  |  |  |  |  |  |  |  |  |  |  | 12 |
| 55 |  |  |  |  |  |  |  |  |  |  |  |  | 8 |
| 50 |  |  |  |  |  |  |  |  |  |  |  |  | 4 |
| 45 |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 40 |  |  |  |  |  |  |  |  |  |  |  |  | -4 |
| 35 |  |  |  |  |  |  |  |  |  |  |  |  | -8 |
| 30 |  |  |  |  |  |  |  |  |  |  |  |  | -12 |
| 25 |  |  |  |  |  |  |  |  |  |  |  |  | -16 |
| 20 |  |  |  |  |  |  |  |  |  |  |  |  | -20 |
| 15 |  |  |  |  |  |  |  |  |  |  |  |  | -24 |
| 10 |  |  |  |  |  |  |  |  |  |  |  |  | -28 |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  | -32 |
| 0 | J | F | M | A | M | J | J | A | S | O | N | D | -36 |