

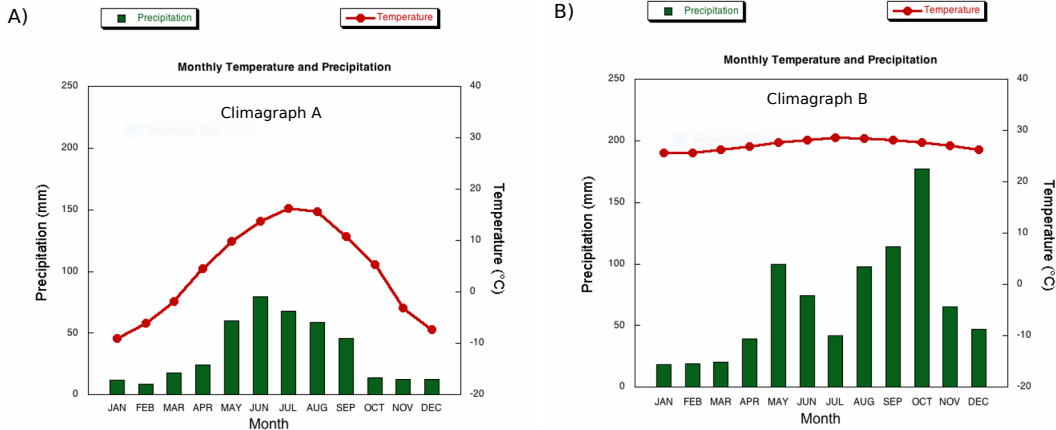


Problem of the Week Problem B and Solution A Tale of Two Cities



Problem

Here are two climagraphs for two cities in the world.



Courtesy of: National Drought Mitigation Center, University of Nebraska - Lincoln

Study them carefully and then answer the following questions.

- If you wanted to spend your time in July at a nearby beach, which city would you choose, A or B?
- If you wanted to spend your time skiing in January, to which city would you go? Is there anything different you'd like to see on the climagraph you choose?
- Describe the weather in January for each city.
- Describe the weather in July for each city.

Solution

- We would choose city B. City A has a July temperature of less than 20°C while city B has a July temperature of almost 30°C , a much nicer temperature for beach fun. City B also has less precipitation in July.
- The January temperature in city A is about -10°C , while city B sits closer to 30°C . Snow is much more likely in city A and is highly unlikely in city B. So City A would be best for skiing in January. It would even better if there were more precipitation, and thus more snow.
- City A: Cold $\approx -8^{\circ}\text{C}$, Dry ≈ 10 mm of precipitation
City B: Hot $\approx 26^{\circ}\text{C}$, Dry ≈ 20 mm of precipitation
- City A: Cool $\approx 17^{\circ}\text{C}$, Dry ≈ 70 mm of precipitation
City B: Hot $\approx 28^{\circ}\text{C}$, Dry ≈ 40 mm of precipitation

Answers may vary as students estimate temperature and precipitation from the climagraphs.

