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

Problem
Here are two climagraphs for two cities in the world.

![Climagraph A](image1.png)

![Climagraph B](image2.png)

Study them carefully and then answer the following questions.

a) If you wanted to spend your time in July at a nearby beach, which city would you choose, A or B?
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?
c) Describe the weather in January for each city.
d) Describe the weather in July for each city.

Solution

a) 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.

b) 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.

c) City A: Cold ≈ −8°C, Dry ≈ 10 mm of precipitation
   City B: Hot ≈ 26°C, Dry ≈ 20 mm of precipitation

d) City A: Cool ≈ 17°C, Dry ≈ 70 mm of precipitation
   City B: Hot ≈ 28°C, Dry ≈ 40 mm of precipitation

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