

Name: \_\_\_\_\_ Date: \_\_\_\_\_

## Unit 5: Climate in the Western Hemisphere



### A. Tundra Climate

The **tundra climate** has long, cold winters with snow on the ground most of the year. Although summers are short, there are 20 to 24 hours of daylight. Even with the long periods of daylight, only one month has an average monthly temperature above 32 degrees. The growing season is too short for trees, so the vegetation consists of moss and lichens. During the long summer days, the soil will thaw on the surface. Because the topmost soil layer thaws, the water from the thawed layer remains on the surface, making it very wet and muddy and a place where many insects can survive. However, below the surface, the soil stays permanently frozen. This permanently frozen layer is known as **permafrost**.



The warmest average monthly temperature is 40°F. The coldest average monthly temperature is -20°F, and there is an average snowfall of six inches. During the long winter, the cold and blowing snow occurs almost daily.

Complete the following.

1. The highest average monthly temperature is \_\_\_\_\_ degrees.
2. The lowest average monthly temperature is \_\_\_\_\_ degrees.
3. The difference between the highest average temperature and lowest average temperature is a) 10°      b) 60°      c) 40°      d) 0°.

Using **Map 12a** and an **atlas**, complete the following.

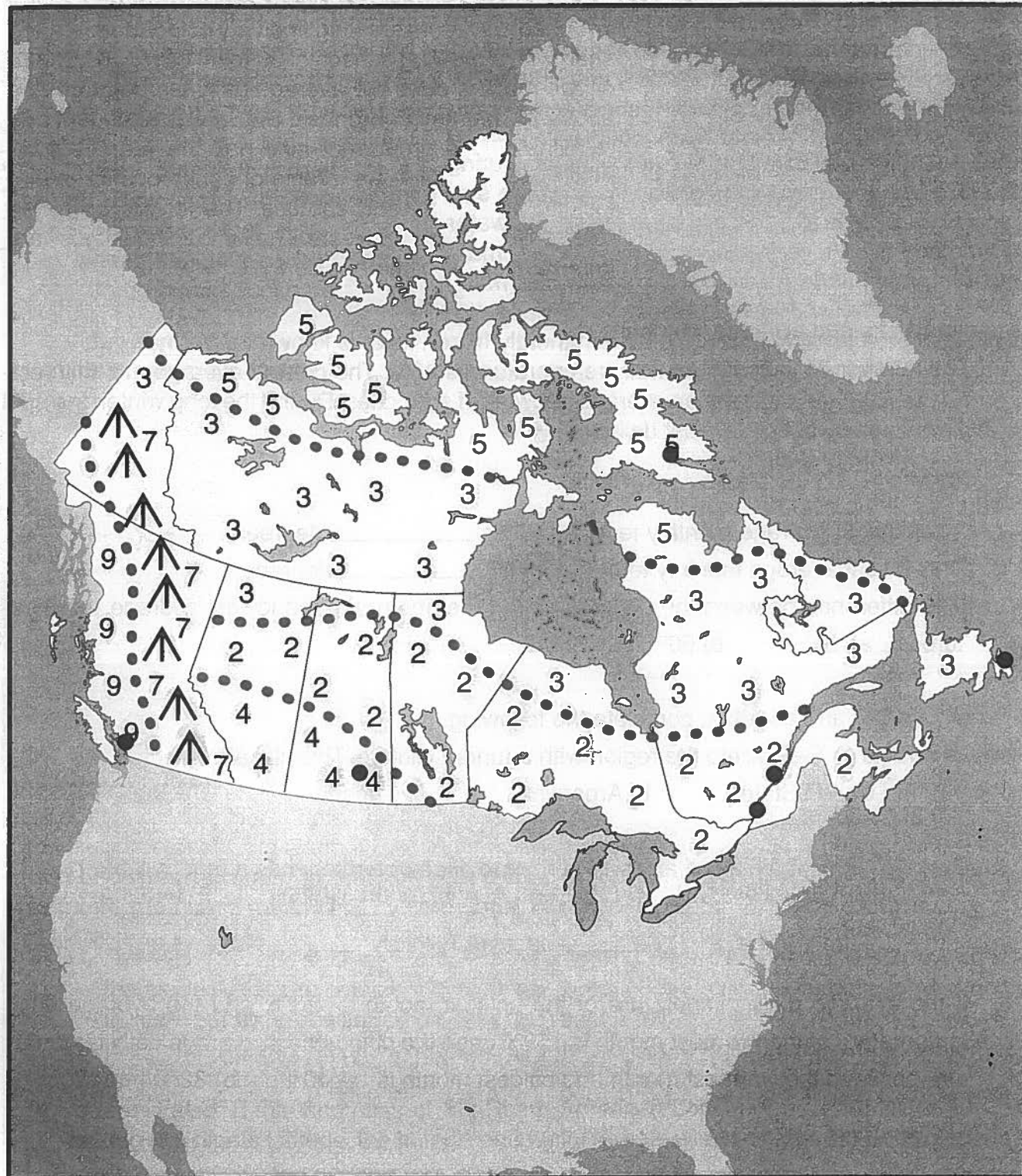
4. The number 5s indicate the region with a tundra climate. This climate is located in  
a) the United States      b) Argentina      c) Canada      d) Cuba.
5. Place a "+" on the blank if any part of the province or territory has a tundra climate.  
\_\_\_\_\_ Alberta      \_\_\_\_\_ Newfoundland      \_\_\_\_\_ Ontario      \_\_\_\_\_ Quebec  
\_\_\_\_\_ Yukon Territory      \_\_\_\_\_ Nunavut Territory      \_\_\_\_\_ Northwest Territories
6. The following cities are located on the map with a dot. Place a "+" on the blank if the city is in the tundra climate.  
\_\_\_\_\_ Montreal      \_\_\_\_\_ Quebec      \_\_\_\_\_ Regina      \_\_\_\_\_ St. John's  
\_\_\_\_\_ Vancouver      \_\_\_\_\_ Iqaluit

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MAP 12a



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## Unit 5: Climate in the Western Hemisphere



### B. Subarctic Climate (Taiga)



The **subarctic climate**, often called the **taiga**, is found in Canada. Winters are long and very cold. Summers are short with a growing season of 30 to 60 days. In only one or two months does the average daily temperature rise above 50 degrees Fahrenheit. Snowfall is abundant and remains on the ground for over half the year. This climate is known for large forests of coniferous trees that include pines, firs, and spruces. The forests are often referred to as **boreal forests**. The lumber industry is very important in this climate region.

Using **Map 12a** and an **atlas**, complete the following.

- The number 3s indicate the region with a subarctic climate. This climate is located in  
 a) Venezuela                      b) the Dominican Republic                      c) Canada                      d) Costa Rica.
- Place a "+" on the blank if the province or territory has a subarctic climate.  
 \_\_\_\_\_ Alberta                      \_\_\_\_\_ Newfoundland                      \_\_\_\_\_ Northwest Territories  
 \_\_\_\_\_ Nova Scotia                      \_\_\_\_\_ Ontario                      \_\_\_\_\_ Prince Edward Island  
 \_\_\_\_\_ Quebec                      \_\_\_\_\_ Nunavut Territory
- The subarctic climate has large forests of  
 a) oak, elm, and maple                      b) fir, pine, and spruce.
- In the subarctic climate, the growing season is    a) 90 to 120 days    b) 60 to 90 days  
 c) 30 to 60 days.
- A very important industry in this region is    a) auto manufacturing                      b) farming  
 c) lumber.
- If the average daily temperature of the coldest month is  $-23^{\circ}\text{F}$ , and the average daily temperature of the warmest month is  $+59^{\circ}\text{F}$ , then the difference in average daily temperature between the warmest month and coldest month is    a)  $40^{\circ}\text{F}$     b)  $82^{\circ}\text{F}$     c)  $30^{\circ}$ .