



Name: _____ Date: _____

Teacher: _____

Introduction

During the month of December, students from George Washington School in Cleveland, Ohio wanted to know if temperature and the amount of minutes per day were different for schools around the world. In order to do this, they decided they would first record their average daily temperature and minutes of sunlight over a given week and then compare their results with data from other schools around the world.

Gather the Data

Using an atlas, they determined that their latitude was 41° North and their longitude was 81° West. They then recorded the amount of daylight minutes per day and the daily temperature over a week in late November. To insure that the temperature recordings were accurate, the students recorded the temperature every day between the 12:00 and 1:00 pm in the afternoon and made sure to place the thermometer in the shade. The students recorded the following data:

	Monday	Tuesday	Wednesday	Thursday	Friday
Temperature ($^\circ$ Celsius)	12	9	7	5	7
Amount of Daylight (Minutes)	591	590	589	586	584

What was the Average Temperature ($^\circ$ C) of the week? _____

What was the Average Amount of Daylight (minutes) of the week? _____

What is the Latitude? _____

Do not include N or S. Examples: 1.) 67° N = 67
2.) 41° S = -41

What is the Longitude? _____

Do not include W or E. Examples: 1.) 72° W = -72
2.) 15° E = 15

Compare the Results

You must now compare the results from the George Washington School with other schools from around the world. Use the information that you recorded above and enter it into the appropriate row in the table below:

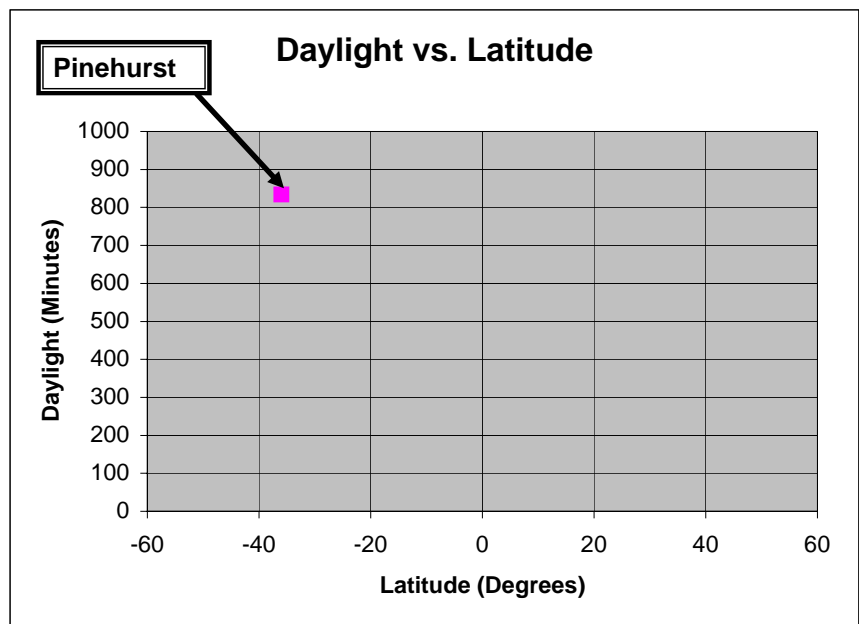
School	City	State	Country	Latitude	Longitude	Minutes of Sunlight	Temperature (°C)
Pinehurst	Albany	Auckland	New Zealand	-36	174	834	19
Kippa-Ring		Queensland	Australia	-27	153	813	29
Mareeba		Queensland	Australia	-17	154	752	34.2
Mazapan School	La Ceiba	Atlantida	Honduras	16	-87	681	29.6
Kfar-Shmriyau Rispon	Herzelia		Israel	32	35	615	21
George Washington							
Badger Road	North Pole	Alaska	USA	60	-147	298	-12

Graph the Results

Using the information from the table above, you should make the following two graphs. The purpose of making these graphs is to try and identify any trends that you may notice. Pinehurst School from New Zealand has already been graphed for you.

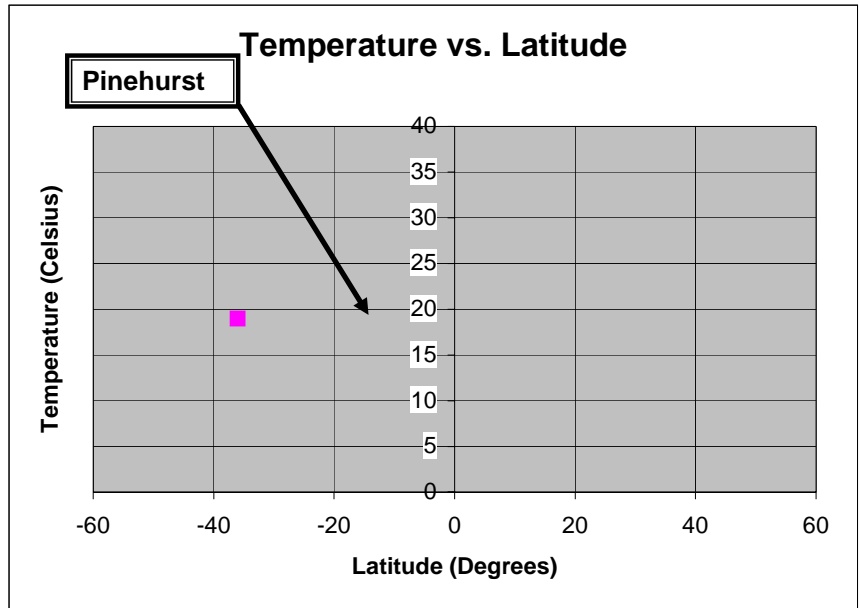
School	Latitude	Minutes of Sunlight

GRAPH 1



School	Latitude	Temp.

GRAPH 2



Follow-up Questions

Add this city to the graph on the previous page:

City: Bakerstown
Latitude: 5° South
Temperature: 10° Celsius

Why do you think this city is different than the others? What are some factors that might affect the temperature?
