Weather Data - Project #1
Math Essentials 11

1. For the next two weeks (Feb 9 – Feb 23) you must collect the following data associated with the daily weather. (use the table on the next page)

- General Conditions (Sunny, A mix of sun and cloud, Mainly cloudy, Snowy, Rainy etc.)
- High Temperature (for the day)
- Amount/Type of Precipitation
- Wind Direction

2. Create the following graphs to summarize/illustrate the data that you collected. If the technology is available, these graphs should be created electronically using Excel. (if not, you must use graph paper) Remember to give your graph a title and label your axes.

a) A **double bar graph** that illustrates the total precipitation that you recorded during the past two weeks. (rain/snow amount for each day of the week) Note: You will have Monday - Sunday on your x-axis (add the two Mondays together)

b) A **line graph** that depicts the high temperature for each of the days during the two weeks. (Feb 9-23 on the x-axis)

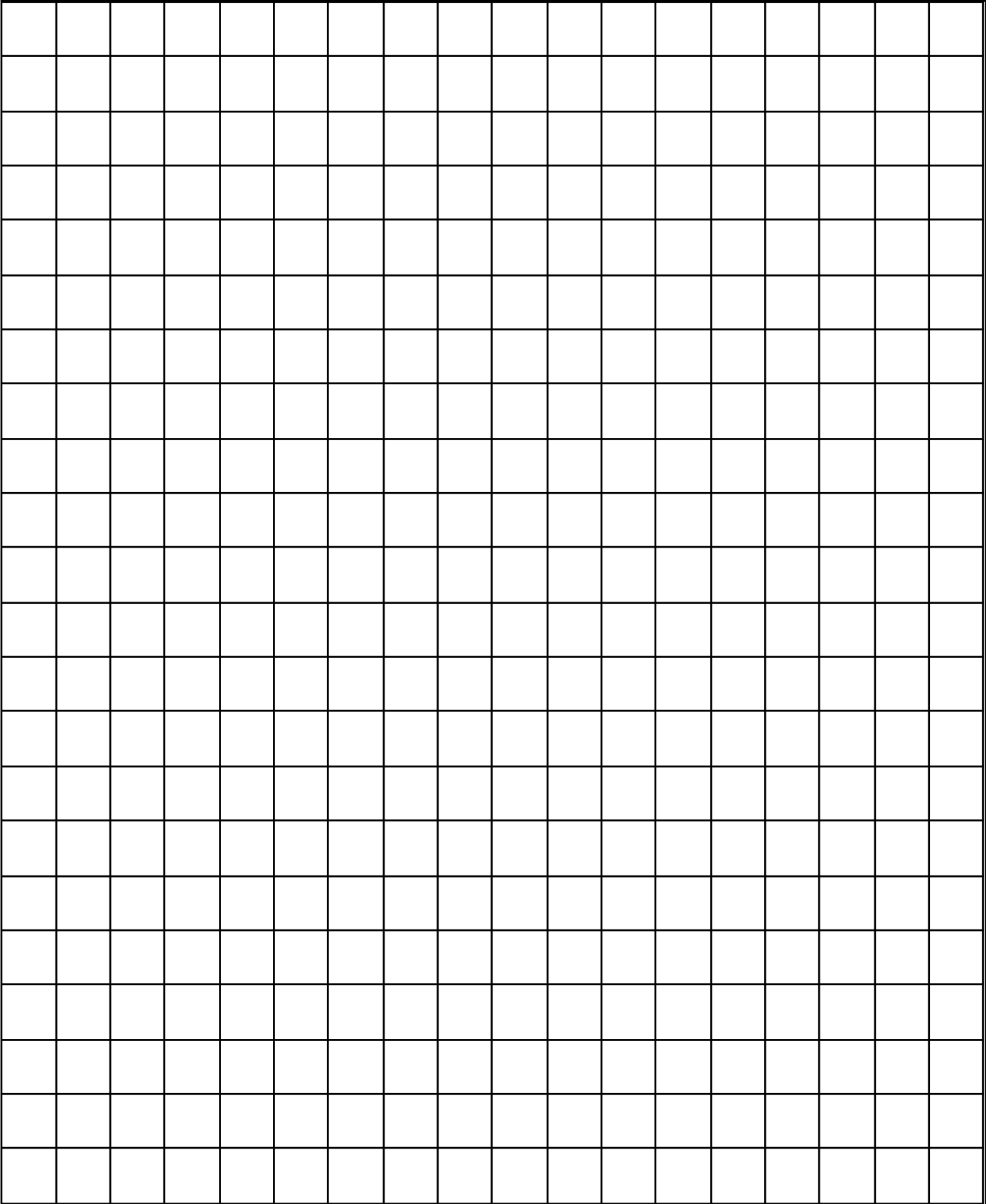c) A **pie graph** that shows the relationship of general weather conditions throughout the past two weeks.

d) A **pie graph** that illustrates the number of days where we experienced a particular wind direction.

3. Analysis and Reflection. Using the graphs you created in question #2, answer the following questions. (Answer on looseleaf, or on a word processing program)

a) Based on the data you collected and the graphs you created, how would you describe the weather during the last two weeks?

b) Which day of the week did we receive the most precipitation? the least precipitation? Give the type and amount of the precipitation received on these days.

c) Based on the patterns/trends of your temperature line graph, make a prediction of what the temperature will be like next week.

d) What direction of wind do we experience the most here in Annapolis Royal? Is this direction, where it is blowing or where it is coming from?

Date	General Conditions	High Temperature (C)	Amount/Type of Precipitation (mm/cm)	Wind Direction(s)

Math Essentials 11 - Project #1 (Weather Data)

Student: _____

CRITERIA   Points

Weather Data Table
The student completed the weather
data table as instructed. The data   / 5
collected is reasonably accurate.

Graphs
The student properly constructs each
type of graph. This includes giving each
graph a title, and labeling the axes.   / 20

Questions
The students answers all the questions.
The answers are clear, detailed, and
are consistent with the graphs the   / 8
student created.

Presentation
The task was completed neatly, is
well organized, and delivers a clear
message.   / 5

Title Page
Centered Title
Name, Class, Teacher, Date (bottom right)   / 2

                                    TOTAL: / 40

Comments