SkyMath

End of Unit

Assessment

Part 2

Student's Name_____

Grade_____   **Gender: (circle one)   F   M**

School_____

City_____

Teacher_____

Date_____

Beginning Time_____   **Ending Time**_____

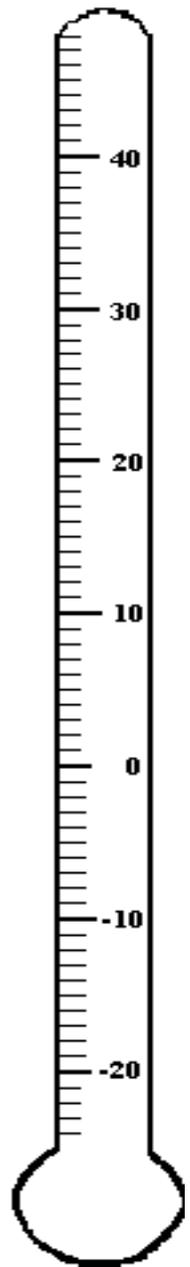1. a. Record the following temperatures on the Celsius thermometer provided.
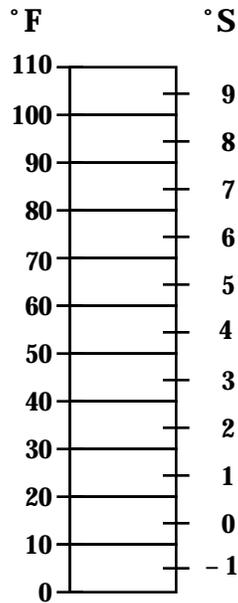
    (1)   -5° C

    (2)   40° C

b.   Convert the temperatures you recorded to degrees Fahrenheit. Explain how you arrived at your solution.

        (1)   -5° Celsius = __ degrees Fahrenheit

        (2)   40° Celsius = __ degrees Fahrenheit

2. Use the temperature scale provided to answer the questions below.

```
 °F              °S

110
              ⊢ 9
100
              ⊢ 8
 90
              ⊢ 7
 80
              ⊢ 6
 70
              ⊢ 5
 60
              ⊢ 4
 50
              ⊢ 3
 40
              ⊢ 2
 30
              ⊢ 1
 20
              ⊢ 0
 10
              ⊢ – 1
  0
```

a. You are running a fever of 9° S.   What temperature would that be on the Fahrenheit thermometer?

9°S = ___°F

b. At about what temperature does water freeze on the SkyMath thermometer?

Water freezes at ___°S

3. The amount of rainfall during a typical year in Flagstaff, Arizona is given in the table below.

Month	Rainfall (inches)
January	2.0
February	2.1
March	2.6
April	1.5
May	0.9
June	0.0
July	3.0
August	3.1
September	1.4
October	missing data
November	1.7
December	2.3

a. On the grid below, construct a graph of the rainfall for a typical year in Flagstaff.
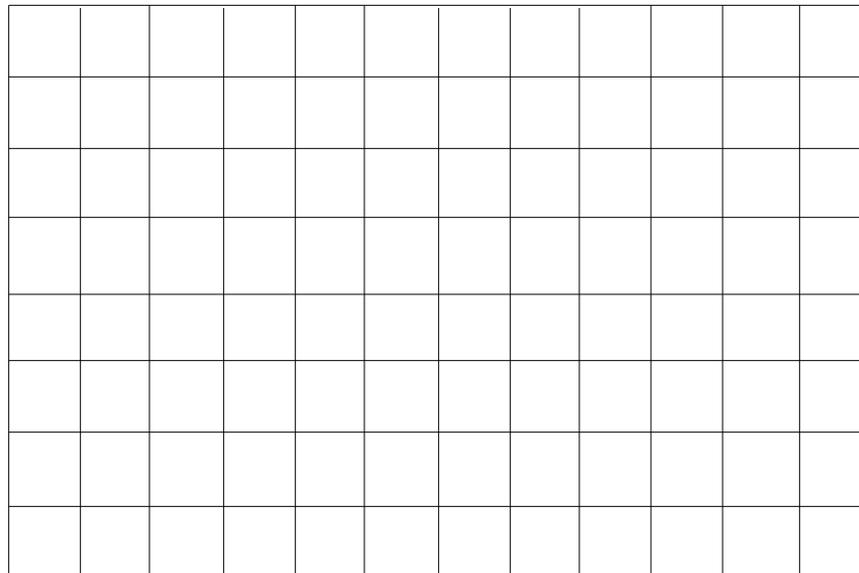
b.   How much rain do you think Flagstaff gets in October?   Show your work.

c.   Which season gets the most rain in Flagstaff?   Show your work.

   (1)   Winter (December, January, February)
   (2)   Spring (March, April, May)
   (3)   Summer (June, July, August)

d. Between which of the following months is the change in rainfall the greatest? Show your work.

   (1) from March to April
   (2) from May to June
   (3) from June to July
   (4) from August to September
   (5) from November to December

4. Your teacher wants you to help her find the typical temperature in the entire school. Help her come up with a plan to do this by answering the following questions.

a. How many thermometers will you need?

b. Where would you put them and why?

  c. Other students will help you collect the data. Write out directions explaining how they should collect the data and over what period of time.

  d. Explain how you will calculate the school's typical temperature after all of the data has been collected.

5.   A science teacher asked her students to find the typical temperature in their classroom.

a.   One of her students, Joe, set up the maximum/minimum thermometer and recorded the following temperatures over a 5 day period.

Date (1996)	4/8	4/9	4/10	4/11	4/12
Low (°F)	40	42	45	41	33
High (°F)	71	74	78	68	62

 He then used these temperatures to determine the typical classroom temperature. How do you think he did it?   What temperature do you think he found?   Show your work.

b.   Do you think Joe's method is a good method for determining the typical classroom temperature? Why or why not?

c. Describe another way of determining the typical temperature in this science teacher's classroom.   Please answer in a complete sentence.