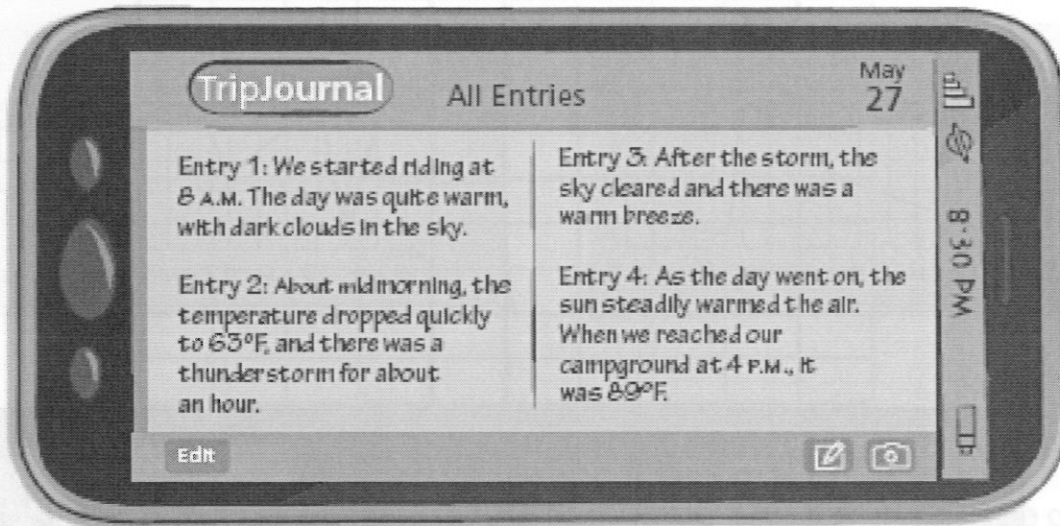


Investigation 1.3 & 1.4

ACE : Quiz Review

Name _____
Date _____ Hour _____



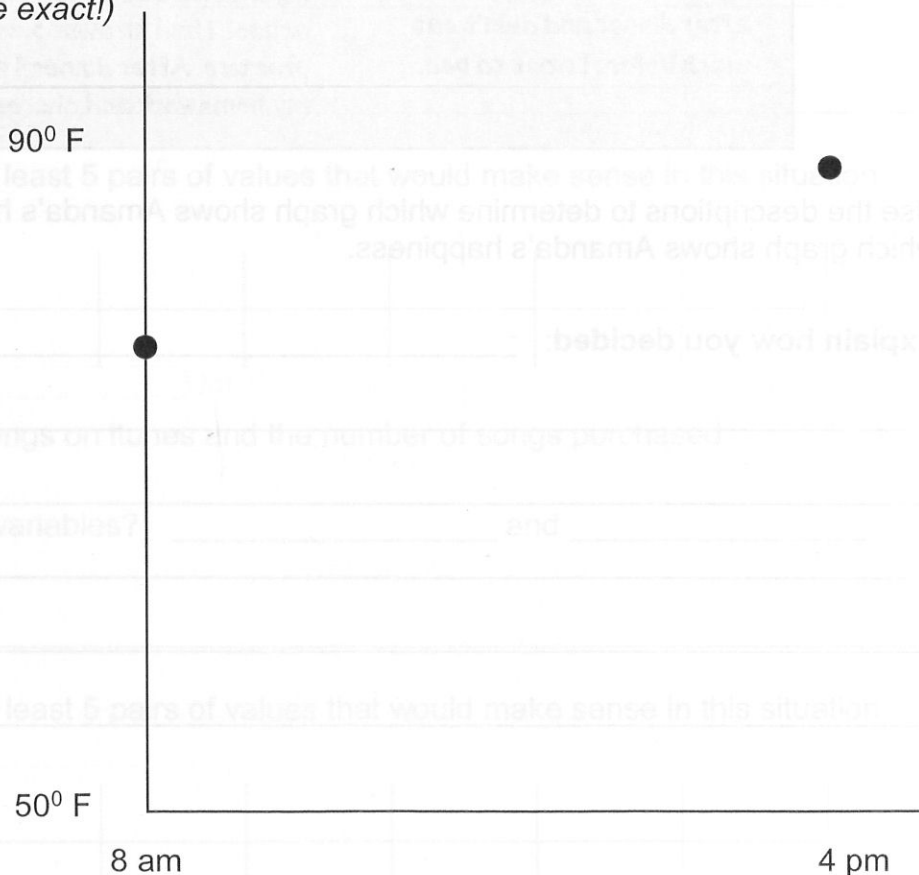
10. Make a graph and a table of *(time, temperature)* data that fit the above information about a day on the road with the Ocean Bike Tours cyclists:

Table:

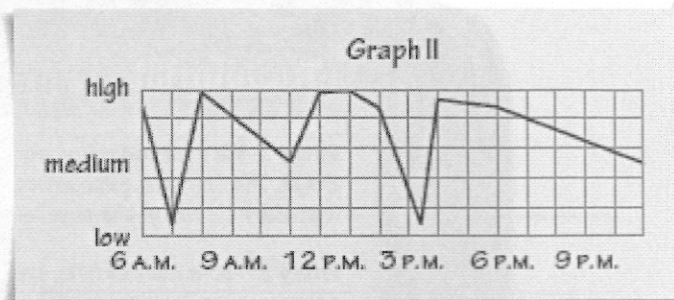
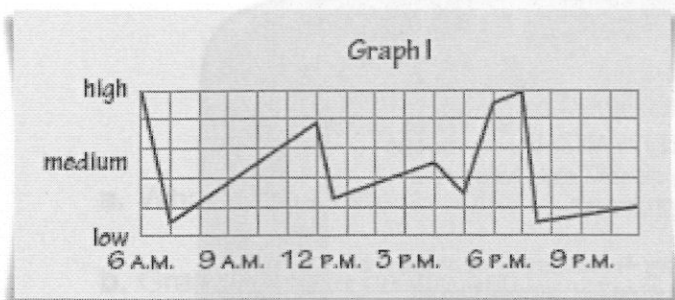
8 am	75° F
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Sketch a Graph:

(It does not need to be exact!)



11. Amanda made the graphs below to show how her level of hunger and her happiness changed over the course of a day. She forgot to label the graphs.



AMANDA My Everyday Life Search

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◆ My Hunger

Hmmm.... I woke up really hungry and ate a large breakfast. I was hungry again by lunch, which began at 11:45. After school, I had a snack before basketball practice, but I had a big appetite by the time I got home for dinner. I was full after dinner and didn't eat much before I went to bed.

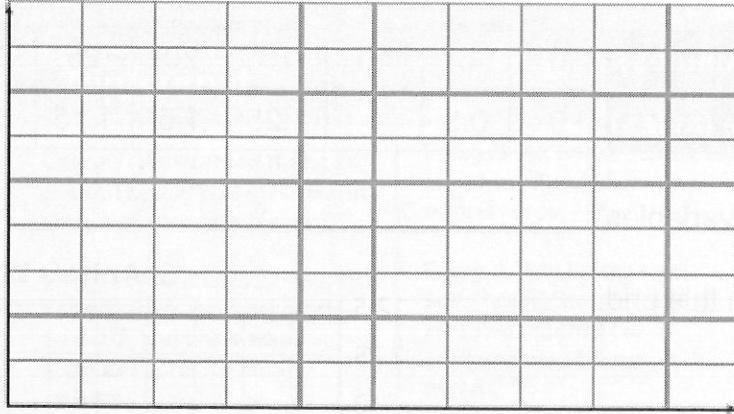
★ My Happiness

Well, I woke up in a good mood, but got mad at my older brother for hogging the bathroom. I talked to the guy I like on the morning bus. My classes were good, but I got bored by lunch. At lunch, I had fun with my friends. I loved my computer class right after lunch, but the rest of my afternoon classes were boring. After school, I had an awesome basketball practice. After dinner, I still had to do my homework and chores.

Use the descriptions to determine which graph shows Amanda's hunger pattern and which graph shows Amanda's happiness.

Explain how you decided: _____

21. Think of something in your life that varies with time. Sketch a graph to show the pattern of change. Remember to label the x and y axes with the variables you are comparing.



25. In parts (a)–(b) below, how does the value of one variable change as the value of the other changes? Estimate pairs of values that show the pattern of change you would expect.

Sample: hours of television you watch in a week and your school grade-point average

Variables: The two variables are hours of television and grade-point average.

Relationship: As television time increases, I expect my grade-point average to decrease.

- a. speed of an airplane and time it takes the plane to complete a 500-mile trip

What are the two variables? _____ and _____

Relationship: _____

Make a table of at least 5 pairs of values that would make sense in this situation.

--	--	--	--	--	--

- b. price paid for songs on itunes and the number of songs purchased

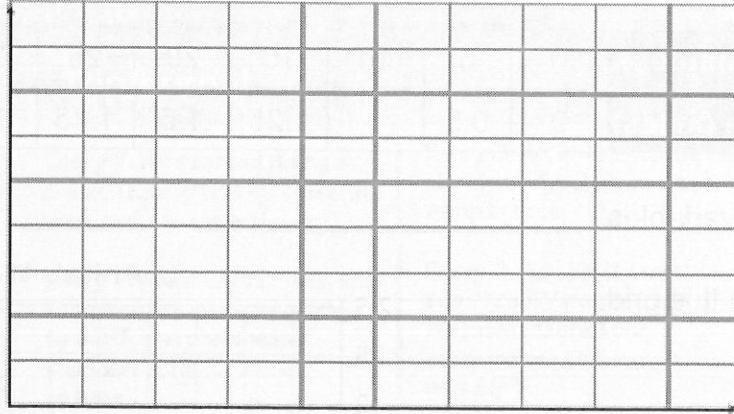
What are the two variables? _____ and _____

Relationship: _____

Make a table of at least 5 pairs of values that would make sense in this situation.

--	--	--	--	--	--

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Make a table of at least 5 pairs of values that would make sense in this situation.

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- b. price paid for songs on itunes and the number of songs purchased

What are the two variables? _____ and _____

Relationship: _____

Make a table of at least 5 pairs of values that would make sense in this situation.

--	--	--	--	--	--

30. The table shows some data Anita collected while walking.

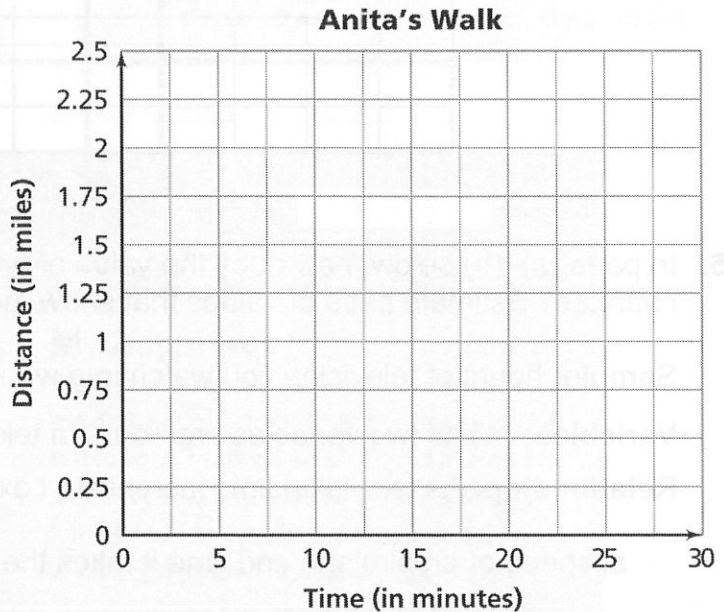
Anita's Walk

Time (minutes)	0	5	10	15	20	25	30
Distance (miles)	0	0.5	1	1.25	1.5	1.75	1.8

a. What are the two variables? _____ , _____

b. Graph the data on this grid.

c. What does the point (15, 1.25) tell about Anita's progress?



d. In what time periods did Anita travel the farthest? _____

How does this show up in the table?

How does this show up in the graph?

e. In what time periods did Anita travel the least? _____

How does this show up in the table?

How does this show up in the graph?

f. Is this problem easier to answer using the table or the graph? _____

Why?