PC Quiz 1.1-1.3 Review

Name

1) Consider the following list: 34, 26, 7, 19, 23, 98, 33, 14, 76, 33, 12. Let x_i be the ith element in the list. Evaluate.

$$\sum_{i=1}^{6} x_{i}$$

$$\sum_{i=1}^{9} x_{i}$$

$$34+2C+7+19+23+98$$

$$= 275$$

$$= 275$$

$$= 275$$

$$= 275$$

$$= 375$$

$$= 375$$

$$= 375$$

$$= 375$$

$$= 375$$

$$= 34.1$$

2) In Chemistry, Labs are worth 30%, Quizzes are worth 25%, Tests are work 35% and the Final Exam is worth 10%. Ben and Kate earned the following scores in each graded category. Who received the higher overall course grade?

		Ben	Kate
302	Lab	93	79
252	Quiz	88	95
352	Test	75	89
102	Final	91	90

3) Use the data in the table below to answer the questions below.

		Amount	of	Homework	
Grade Level	None	1 Hour	2-3 Hours	4+ Hours	Total
Freshman	28	89	75	113	305
Sophomore	35	120	88	172	415
Junior	40	155	102	91	388
Senior	52	213	75	20	360
Total	155	577	340	396	1468

a) What percent of sophomores have less than 2 hours of homework each night?

$$\frac{35+120}{455} = 37.32$$

b) What percent of students who have no homework are freshmen?

4) The chart below gives information about the number of pets students in the BHS Book Club have at their homes. Use the information in the chart to answer the questions below.

Number	Number	
of	of	
Students	Pets	
5	0	
4	1	
4	2	
3	3	
2	4	
2	5	
1	15	

21

a) How many students are in the Book Club?

$$\frac{4(1) + (4)(6) + (3)(4) + (3)(4) + (3)(5) + (3)(7)}{21} = \frac{54}{21} = 2.6 \times \frac{3}{21}$$

c) Find the median number of pets.

d) Which number, the mean or the median, best describes the typical number of pets for a book club member? Explain.

5) The table below shows data regarding accidental deaths in the U.S. in 2004.

Age	Drownings
Under 1 yr	62
1-4	430
5-14	269
15-24	574
25-34	385
35-44	435
Above 44	525

2680

a) What is the median age of a victim who died of an accidental death by drowning?

b) What percent of accidental death by drowning victims where older than 34?

c) Indicate two problems you would have if you were to make a histogram with the data in the

table.

- Age introdib (bin sidth) are hat all the Same

- Above 44 is wrong