Math 10 2019 Winter	Name: Last	Pink	First	Key	
Quiz Chapter 1 Form B	Circle	e your regular	class time	11:30 $12:30$	
	1 point d	leducted if you	do not circle	the class time	
Questions 1-3 refer to the f A statistics instructor was interestudying Statistics during the w College Math 10 students to fin midterm exam.	ested in the amount reek of the second n	nidterm exam. S	he surveyed a	sample of De Anza	
1. [4.5 points] For each situat	ion below, fill in the	e appropriate san	npling method	I from the list shown:	
cluster strat	ified sy	stematic	simple ra	ndom convenie	ence
a) The sample was selected student in each of the si		ing six Fall 2018	3 Math 10 clas	ses and including eve	ery
Sampling Method:	voster				
b) The sample was selecte 2018 Math 10 classes.	d by contacting eve	ry 12 th student or	n a list of all s	tudents enrolled in Fa	all
Sampling Method: 5	ystematic				
c) 8 students were random Sampling Method:	nly selected from ea	ch Fall 2018 Ma	th 10 class.		
2. [3 points] In parts (a) and (b)	, fill in the blank by	selecting from t	the following	choices:	
population	parameter	sample	statistic	variable da	ıta
a) Maria studied 10.5 hours	that week. 10.5 hou	rs is an example	of date		
b) The sample produces an a	verage study time o	of 9.2 hours. 9.2	hours is an ex	ample of Statis	tic
3. [3 points] Identify the type o	f data as, quantitati	ve discrete, quar	ntitative conti	nuous, or qualitative	
a) Whether a student used	the textbook in prin	t or as an ebook			
qualet	atur				
b) Amount of time a studer	nt studied				

quantitative continuous

Pink Key Form B

4. A sample of 40 houses being sold were examined to find out how many bedrooms each house had. The data are summarized in the table below:

-	- zommarized in the tuble below.									
	X = number of Frequency		Relative	Cumulative						
	bedrooms	(number of houses)	Frequency	Relative Frequency						
	1	2	2/40=.05	.05						
	2	7	7/46=1756		05+.175					
	3	16	16/40=.40	, 625 C)	225+.40					
	4	?(12)@	12/40=.30	,925	-,625+.30					
	5	2	2/40=.05	.975	-,925+,05					
	6	1	1/40 = .025	1.0	975+.025					

Complete the table as needed to answer the questions below.

You are graded on your answers to the questions, not by the numbers you write in the table.

a. [1 point] How many houses had exactly 4 bedrooms?

b. [1 point] What is the relative frequency for 2 bedroom houses? (Answer to 3 decimal places)

c. [1.5 points] What is the cumulative relative frequency for 3 bedroom houses? (Answer to 3 decimal places)

d. [1.5 points] What percent of houses had at most 2 bedrooms? (Answer to a tenth of a percent)

e. [1.5 points] What percent of houses had at least 4 bedrooms? (Answer to a tenth of a percent)

$$37.5\%$$
 $\frac{12+2+1}{40} = \frac{15}{40} = .375$ OR $1-.625 = .375$

5. [3 points] A medical clinic administrator is interested in the recovery times for all patients who visited the clinic for treatment of a sports injury. The clinic administrator selects a sample of its patients who have visited the clinic for a sports injury and reviews their records. Identify the following:

a. The PARAMETER is:

A. All this clinic's patients who had injuries

B. Average recovery time for the patients in the sample who had sports injuries statistic

(C.) Average recovery time for all patients who visited the clinic for a sports injury parameter

D. The recovery time for a patient who visited the clinic for a sports injury Varable

ANSWER

b. The POPULATION is:

A. All of the clinic's patients

(B) All of the clinic's patients who visited the clinic about sports injuries population

C. All the patients whose records were reviewed by the administrator for this study. Sample.

D. All people who received medical care.

A,D includes people without sports injuries
but we are not interested in them in this question ANSWER B

c. The VARIABLE is:

A. Average recovery time for all patients who visited the clinic for a sports injury parameter

B. List of recovery times for individual patients

C. Number of patients in the sample "sample Size"

D. The recovery time for a patient who visited the clinic for a sports injury

D is variable ANSWER