

Homework 2

Instructions

- 1. Download the printable version of this assignment <u>here</u>. Print it out and record your answers directly in the space provided.
- 2. Write your name and student number on the top of the assignment.
- 3. For problems requiring additional written work, use the allotted work space and/or margins of the
- 4. Once you're done with a problem, reflect on how you well-equipped you felt answering that particular problem using the confidence level assessment.

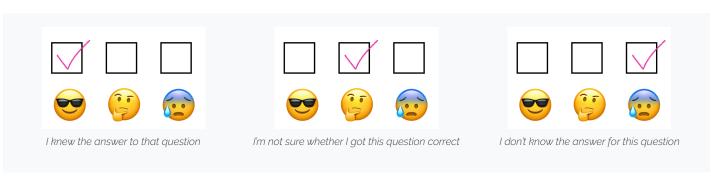


Figure 1: Confidence Level Assessment

5. Turn in your assignment in class on the due date.

Questions

Question 1

The following table provides chart data for the patients in a particular hospital ward:

Patient	Room	Physician	Condition	Length of stay
Carter, M.	202	Pollock	Critical	8 days
Levin, J.	203	McClare	Fair	4 days
Fox, J.	203	Lench	Good	5 days
Garcia, L.	205	Lench	Fair	7 days
Arluke, A.	201	Pollock	Serious	2 days
Parodi, A.	203	McClare	Good	9 days
Stark, D.	204	Lench	Fair	5 days
Chow, F.	202	Pollock	Critical	1 day
McDevitt, J.	204	Loftus	Serious	2 days







Name and calculate the most appropriate measure of central tendency and variability for each of the following variables. Feel free to provide a justification for your choice of measure as you see fit.

Room number		
Measure of central tendency:		
Measure of variability:		
<u>Physician</u>		
Measure of central tendency:		
Measure of variability:		
Patient condition		
Measure of central tendency:		
Measure of variability:		
<u>Length of hospital stay</u>		
Measure of central tendency:		
Measure of variability:		
Question 2		
A researcher collected information on the number of text messages sent over an 8-hour period by a group of teenagers and a group of parents. The data collected are as follows:		

TEENAGE	ERS

D	ΔΙ	DI	=1	NI"	ΓC

Case #	Number of Texts
1	4
2	27
3	10
4	8
5	5
6	4
7	11
8	7
9	9
10	5

Case #	Number of Texts
1	0
2	6
3	5
4	2
5	9
6	10
7	7
8	9
9	6











group (teenagers and parents).	
<u>TEENAGERS</u>	<u>PARENTS</u>
MEAN	MEAN
MEDIAN	MEDIAN
MODE	MODE
RANGE	RANGE
STANDARD DEVIATION	STANDARD DEVIATION
b. Which group – teenagers or parents – tended to s statistics you calculated for Part a. [Choose the mo	
Answer:	
c. Which group – teenagers or parents – had the gre Support your answer using statistics you calculate for making your casel.	
Answer:	
d. What do your calculations indicate about the shap positively/right skewed) of the distributions for the	
Answer:	

a. Find the mode, median, mean, range, and standard deviation for the number of texts sent by each

e. If you removed the most extreme case (the person with the most text messages) from each of the distributions, would your answers to Parts b and c change?

Answer:		
Question 3		
A teacher asked a sample of 18 junior high school watched during the previous weekend. The result:		
requency distribution.		
Hours of TV	Frequency	
5	3	
4	5	
3	6	
2	2	
1	2	
0	0	
Calculate the following statistics to describe these	e data:	
MEAN		
MEDIAN		
MODE		
RANGE		
STANDARD DEVIATION		