Stat 50 - Elementary Statistics

Winter 2020

Quiz 2: Ch 2

Dr. Jorge Basilio

NAME (PRINT): Solutions

SCORE: ____

SIGNATURE: _

Directions

- YOU ARE ALLOWED TO USE A CALCULATOR ON THIS EXAM. (Ti83/Ti83+/Ti84/Ti84+CE-T, or scientific calculator)
- Handwriting should be neat and legible. If I cannot read your writing, zero points will be given.
- Make sure to ALWAYS SHOW YOUR WORK; you will not receive any partial credits unless work is clearly shown. *If in doubt, ask for clarification.*
- Leave answers in exact form (as simplified as possible), unless told otherwise.
- Put a box around your final answer where applicable.

Quiz (25 points)

Problem 1: 10 pts

0-60

Sixty adults with gum disease were asked the number of times per week they flossed before their diagnosis. The (incomplete) results are shown:

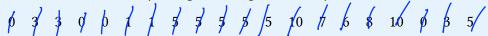
# flossing per week	Frequency	Relative Frequency	Cumulative Rel. Freq.
0	27	27/60 = 0.4S	0.45
1	18	0.3	(0.75)
3	6	0.1	0.75+0.1 = 0.95
6	3	3/60 = 0.05	0.9
7	6	6/60=0.1	1

- (a) (5 pts) Fill in the blanks in the table above.
- (b) (1 pt) What percent of adults floss less than 3 times per week? Round your answer to the nearest percent.

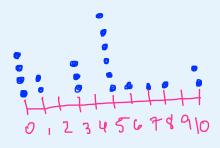
(c) (1 pt) What is the **relative frequency** of adults that floss **at most** 6 times per week?

Problem 2: 5 pts

The following data represent the results of a survey asking "How long does it take you to eat breakfast?"



Create a **dot plot** display for the data.



Problem 3: 10 pts

Age (yr) of Best Actress When Oscar Was Won	Frequency	t)
20–29	29	
30–39	34	
40–49	14	
50–59	3	
60–69	5	
70–79	1	
80–89	1	175
ency distribution: ded in the summary?	Calmon!	include units
		1

Identify the following given the above frequency distribution:

(a) (1 pt) How many individuals are included in the summary?

(b) (1 pt) class width

(c) (4 pts) class midpoints

$$CMI = \frac{20+29}{2} = 24.5$$
 $CM2 = \frac{20+39}{2} = 34.5$, $CM3 = 44.5$, $CM4 = 54.5$, $CM5 = 64.5$

(d) (4 pts) class boundaries