Math 153 - Quiz 3

September 7, 2017

Name_	keu		
	\mathcal{O}		
		Score	

Show all work to receive full credit. Supply explanations when necessary. You must work individually.

1. (5 points) The frequency distribution shows the body mass indicies of 40 adults.

BMI	Frequency	
17.2-20.2	4	
20.3-23.3	9	•
23.4-26.4	7	
26.5 - 29.5	9	4- 4TH
29.6-32.6	5	
32.7.–35.7	. 4	< 6 [™]
35.8-38.8	2	

(a) What is the class width?

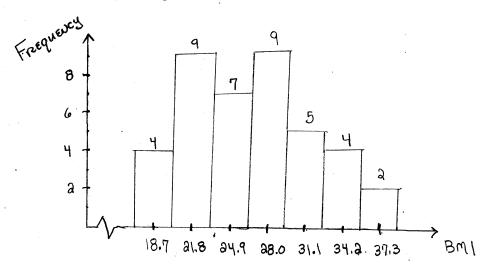
(b) What are the class midpoints?

hat are the class midpoints?
$$\frac{17.2 + 30.3}{2} = 18.7$$
, 21.8 , 34.9 , 38.0 , 31.1 , 34.9 , 37.3

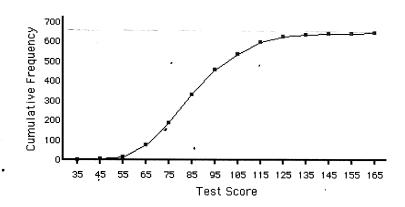
(c) What are the boundaries on the 4th class?

(d) What is the relative frequency of the 6th class listed above?

(e) Using class midpoints along the horizontal axis, construct the corresponding frequency histogram.



2. (3 points) The following graph summarizes the scores on a widely administered test.



(a) What is the name of this type of graph?

(b) About how many test scores are in the sample?

(c) Which interval along the horizontal axis contains the most test scores? Explain how you know.

3. (1 point) What type of graph is typically used to show portions of a whole?

4. (1 point) What is one big difference between a histogram and a bar graph?

THE HORIZONTAL AXIS OF A BAR GRAPH IS SEPARATED BY CATEGORIES RATHER THAN BEING A NUMBER LINE FOR SEPARATING NUMERICAL CLASSES.