KEY

AP Statistics Semester 1 Practice Final Exam

Chapter 1

1. Which of the following is true about the data below?



Heights of 30 people



Which of the following statements is true?

CThe median is 11.78

- b. The mean is 12.2
- c. The median is 12.2

d. The data lends itself to representation in a pie chart.

• The data would be well represented in a histogram.



SKEWING RIGHT OR LEFT MOVES THE MEAN IN THE SAME DIRECTION

$$MEAN: \overline{X}: \frac{117.6}{10} = 11.78$$

MI-NIN)

1. The following two-way table shows the relationship between grade level and employment for 300 high school students.

soo mga soneer e	Employed	Unemployed, but looking for a job	Not interested in working	100
Upperclassmen	106	36	8	180
Underclassmen	24	39	87	150

What relationship, if any, exists between grade level and employment status? Explain 300 your answer, using appropriate data.

UPPERCLASSMEN ARE MULH MORE INTEREST IN WORKING (UNLY SY. ARE NOT INTERESTED IN WORKING WHILE 58% OF UNDERCLASSMEN ARE NOT INTERESTED) ×

* UPPLALLASSMEN ARE EMPLOYED AT A RATE MULH HIGHEN THAN UNDERCLASSMEH. (70.64, V. 16.7.) 2. The following numbers are the calorie counts of hamburgers at 20 popular fast food

restaurants.



c. If the highest calorie burger in the data, the Burger Queen McWhopper (803 calories),

was replaced with the Seedz cafe vegan kale pumpkin spice wrap (207 calories), how would the

following measures of center and spread be affected? W/ V.K.PSW . 462.95 W/ B.Q.M.: 492.75 Mean * MEAN WULD DROP BY 30 CALONIES W/BQM:500 W/ V.K.P.S.W:474 * MGAIAN WOULD DRUP Z6 CALORIES Median Standard Deviation W/ BEM: 160.5 W/VKPSW: 155.1 * STANDARD DEVIATION DECREASES BY S.4 CALONIES