

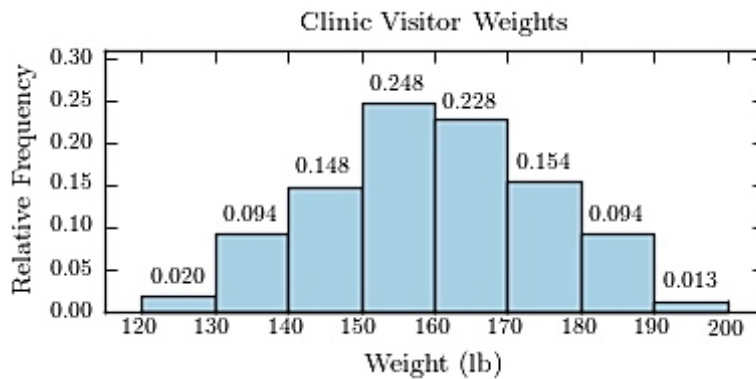
Review 01

- 1) Which one of the following data are continuous? 1) _____
- A) the number of species of trees in a park
 - B) the average height of a sample of trees
 - C) the number of representatives of each species in the park
- 2) Which one of the following data are discrete? 2) _____
- A) the height of the tallest player on Duke University's men's basketball team
 - B) the pre-season ranking of Duke University's men's basketball team
 - C) the average height of players on the University of Connecticut's women's basketball team
- 3) The following frequency distribution presents the weights in pounds (lb) of a sample of visitors to a health clinic. 3) _____

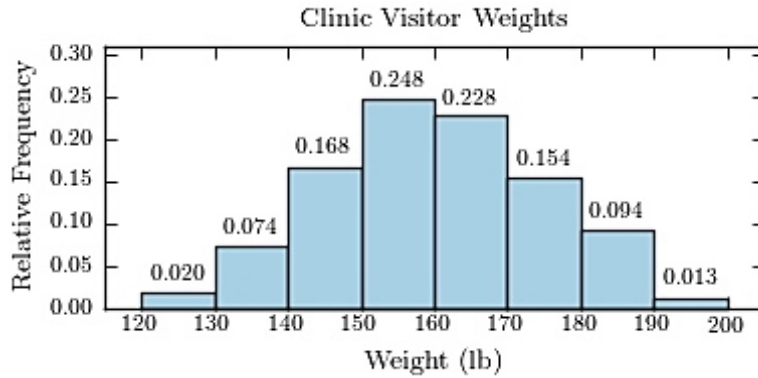
Clinic Visitor Weights	
Weight (lb)	Frequency
120-129	3
130-139	11
140-149	25
150-159	37
160-169	34
170-179	23
180-189	14
190-199	2

Construct a relative frequency histogram.

A)



B)



4) Find the mean for the following data set: 4) _____
29 22 10 10 27 19
A) 20.5 B) 19.5 C) 19 D) 10

5) A student has an average of 79 on seven chapter tests. If the student's scores on six of the tests are 71, 71, 95, 84, 65, and 75, what was the score on the remaining test? 5) _____
A) 92 B) 77 C) 79 D) 88

6) Find the mean, mode, median, and midrange for the following data set. 6) _____
12, 15, 18, 18, 15, 22, 15, 30, 12
A) mean = 17.4 B) mean = 15
mode = 18 mode = 15
median = 15 median = 17.4
midrange = 21.0 midrange = 21.0
C) mean = 17.4 D) mean = 21.0
mode = 15 mode = 15
median = 15 median = 15
midrange = 21.0 midrange = 17.4

7) The grades for the trigonometry exam are listed below. Find the range. 7) _____
85, 76, 93, 82, 84, 90, 75
A) 11 B) 18 C) 9 D) 76

8) Find the sample variance for the following data set: 8) _____
15 22 29 28 35
A) 46.2 B) 57.7 C) 7.6 D) 20

9) Find the population standard deviation for the following data set: 9) _____

27 20 18 24 15

- A) 22.7 B) 18.2 C) 4.8 D) 4.3

10) Given that the variance for a data set is 1.20, what is the standard deviation? 10) _____

- A) 0.60 B) 1.10 C) 1.20 D) 1.44

11) The average age of Stokes County school board members over the last 40 years has 11) _____

been 51, but members have ranged from 32 to 67. Use the range rule of thumb to estimate the standard deviation of the members' ages.

- A) 50 B) 24.8 C) 8.8 D) 17.5

12) If a student scored 89 points on a test where the mean score was 80.2 and the standard 12) _____
deviation was 6.7. The student's z score is _____.

- A) 1.31 B) 13.28 C) 0.20 D) 11.97

13) Which score indicates the highest relative position? Hint: compare the z-scores. 13) _____

- I. A score of 2.6 on a test with $\bar{X} = 5.0$ and $s = 1.6$
- II. A score of 650 on a test with $\bar{X} = 800$ and $s = 200$
- III. A score of 48 on a test with $\bar{X} = 57$ and $s = 6$

- A) III B) I
C) All three are equal D) II

14) The number of incidents in which police were needed for a sample of 9 schools in 14) _____
Allegheny County is 8, 39, 6, 12, 45, 16, 3, 0, 15. Find the first and third quartiles for the data.

- A) $Q_1 = 4.5; Q_3 = 27.5$ B) $Q_1 = 0; Q_3 = 45$
C) $Q_1 = 6; Q_3 = 16$ D) $Q_1 = 12; Q_3 = 39$

15) For the data set below, find the IQR. 15) _____

70 63 73 65 61 62 74 63 74 68 78

- A) 63 B) 74 C) 11 D) 17

Answer Key

Testname: STA2023_REVIEW01B

- 1) B
- 2) B
- 3) B
- 4) B
- 5) A
- 6) C
- 7) B
- 8) B
- 9) D
- 10) B
- 11) C
- 12) A
- 13) D
- 14) A
- 15) C