

Review 01

- 1) The following data show the number of laps run by each participant in a marathon. 1) _____

46 65 55 43 51 48 57 30 43 49 32 56

Which of these choices display the correct stemplot?

A)

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3 | 0 2
4 | 3 6 8 9
4 | 1 3 5 6 7
6 | 5
    
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B)

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3 | 0 2
4 | 3 3 6 8 9
5 | 1 5 6 7
6 | 5
    
```

- 2) Find the variance for the given sample data. Round your answer to one more decimal place than the original data. 2) _____

7 7 2 5 1

A) 7.8

B) 11.8

C) 7.7

D) 6.2

- 3) Find the standard deviation for the given sample data. Round your answer to one more decimal place than the original data. 3) _____

18 18 18 9 15 5 10 5 15

A) 5.1

B) 5.4

C) 5.8

D) 1.6

- 4) The prices (in dollars) of 12 electric smooth top ranges are listed below. Find the range for the given sample data. 4) _____

865 1010 655 565 1465 1110
710 765 820 1310 555 1065

A) \$920

B) \$910

C) \$930

D) \$900

- 5) A store manager kept track of the number of newspapers sold each week over a seven-week period. The results are shown below. 5) _____

81 71 202 113 269 248 242

Find the median number of newspapers sold.

A) 113 newspapers

B) 242 newspapers

C) 202 newspapers

D) 175 newspapers

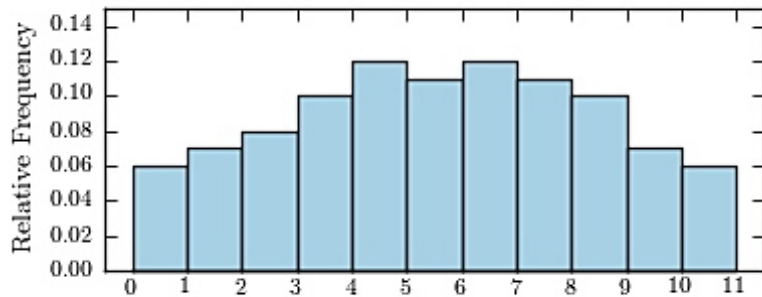
6) Find the class boundaries, midpoint, and width of the class 23-33? 6) _____
 A) boundaries: 22.5-33.5; midpoint: 28; width: 10
 B) boundaries: 22.5-33.5; midpoint: 28; width: 11
 C) boundaries: 23.5-32.5; midpoint: 28; width: 9
 D) boundaries: 23-33; midpoint: 28; width: 10

7) A student has an average of 78 on seven chapter tests. If the student's scores on six of the tests are 76, 74, 76, 80, 83, and 91, what was the score on the remaining test? 7) _____
 A) 79 B) 66 C) 80 D) 78

8) The number of police officers in selected city districts is listed below. Find the mode. 8) _____
 24, 26, 24, 30, 23, 28, 19, 31, 24, 26, 19
 A) 28 B) 24 C) 23 D) 26

9) What is the midrange of the following data set? 9) _____
 1, 7, 6, 8, 0, 8, 14, 14, 14
 A) 1 B) 8 C) 7 D) 14

10) For the data shown in the histogram, which of the following choices best describes the relationship between the median and the mean? 10) _____

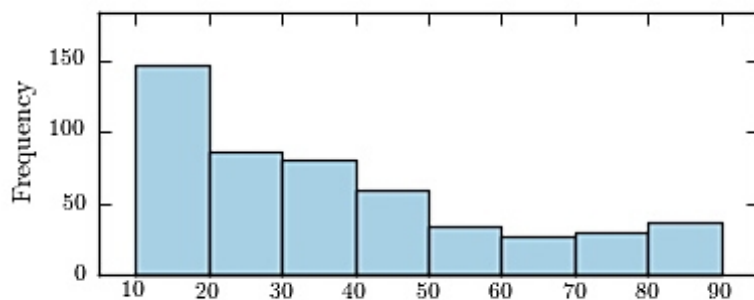


A) median > mean B) median < mean C) median ≈ mean

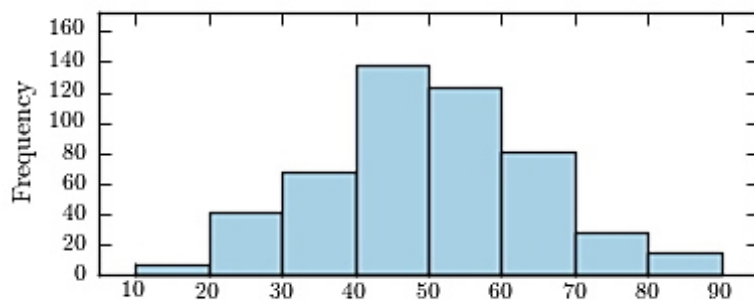
15) For which of the following histograms is it appropriate to use the Empirical Rule?

15) _____

A)

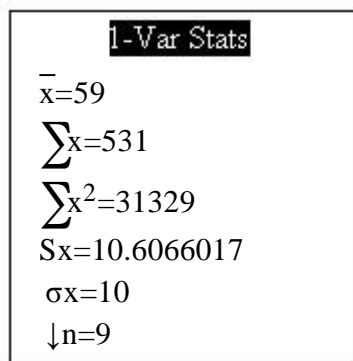


B)



16) The following population parameters were obtained from a graphing calculator.

16) _____



Assuming the population is bell-shaped, approximately what percentage of the population values are between 29 and 89?

A) 95%

B) 68%

C) almost all (greater than 95%)

D) almost none (less than 5%)

Answer Key

Testname: STA2023_REVIEW01

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