

Descriptive Statistics Test Solutions

I. Place the number of the appropriate definition next to the item it describes.

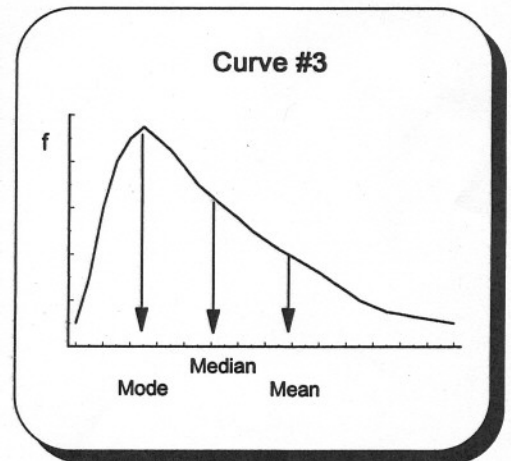
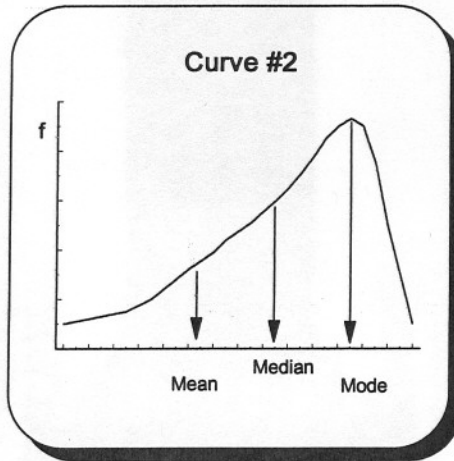
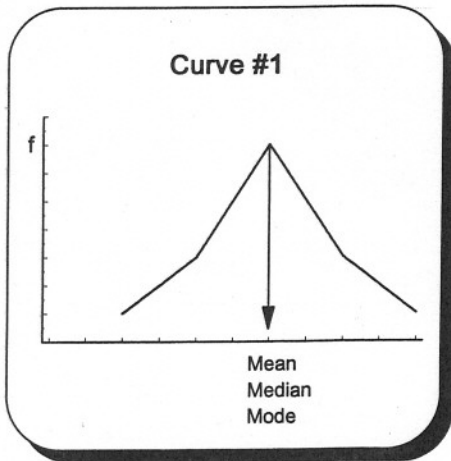
- | | |
|--|---|
| A. Statistic <u> 4 </u> | 1. A place for every outcome |
| B. Parameter <u> 9 </u> | 2. Do not contain the same outcome |
| C. All-inclusive <u> 1 </u> | 3. The use of sample statistics to draw conclusions concerning the population |
| D. Discrete <u> 5 </u> | 4. A numerical characteristic of a sample |
| E. Mutually exclusive <u> 2 </u> | 5. Only finite values can exist on the x-axis |
| F. Zero <u> 10 </u> | 6. Published by the original collector |
| G. Continuous <u> 8 </u> | 7. Severely affected by a few extreme values |
| H. Inferential statistics <u> 3 </u> | 8. Measurement may assume any value associated with an uninterrupted scale |
| I. Arithmetic mean <u> 7 </u> | 9. A numerical characteristic of a population |
| J. Primary data <u> 6 </u> | 10. Sum of the deviations around a mean |

II. Answer questions A - E using the information in this chart.

- A. The second class has real class limits of 24.5 and 39.5 .
 B. The first class has stated class limits of 10 and 24 .
 C. The class width is 15 .
 D. The midpoint of the third class is 47 .
 E. The range using real class limits is from 9.5 to 54.5 .

| Stated Class Limits | x | Frequency (f) |
|---------------------|------|---------------|
| 10 - 24 | 17.0 | 2.0 |
| 25 - 39 | 32.0 | 3.0 |
| 40 - 54 | 47.0 | 5.0 |

III. Locate the approximate positions of the mean, median, and mode on these graphs.



IV. Answer questions A - E using Curves #1 to #4.

- A. Curve #1 is not skewed and is said to be symmetrical or normal .
 B. Curve #2 is skewed to the left .
 C. Curve #3 is skewed to the right .
 D. Curve #4 is bimodal .
 E. A curve with more than two peaks is multimodal .

