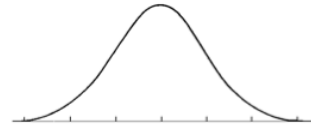


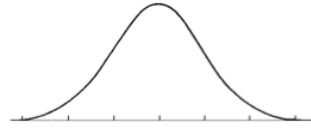
1. What is the mean and how do you find it? \_\_\_\_\_
2. What is the median and how do you find it? \_\_\_\_\_
3. What is the mode? \_\_\_\_\_
4. Which measure of center should you use if there is an outlier? \_\_\_\_\_
5. Which measure of center should you use if there is not an outlier? \_\_\_\_\_
6. What are the 5 parts of the 5 number summary? \_\_\_\_\_
7. What type of plot can we draw using the 5 number summary? \_\_\_\_\_
8. If 2 sets of data have the same mean, what do we use to determine which is more consistent?  
\_\_\_\_\_
9. What are the steps to find standard deviation on the calculator?  
\_\_\_\_\_
10. Give an example of a set of data with a standard deviation of 0. \_\_\_\_\_
11. In a normal distribution, what percent of the data lies within 1 standard deviation of the mean?  
\_\_\_\_\_
12. In a normal distribution, what percent of the data lies within 2 standard deviations of the mean?  
\_\_\_\_\_
13. In a normal distribution, what percent of the data lies within 3 standard deviations of the mean?  
\_\_\_\_\_
14. Kevin earned a grade of 52 on a normally distributed test with mean 45 and standard deviation 10. On another normally distributed test with mean 70 and standard deviation 15, he earned a 80. On which of the two tests did he do better, relative to the others who took the tests? Explain your reasoning.  
\_\_\_\_\_

(#15-19) The IQ scores on an intelligence test are approximately normally distributed with a mean of 105 and standard deviation of 16. What % of people have an IQ:

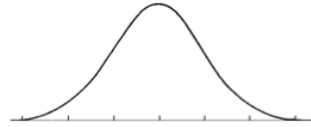
15. greater than 82? \_\_\_\_\_



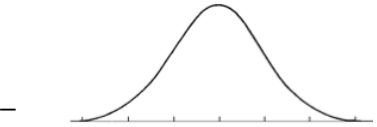
16. less than 124? \_\_\_\_\_



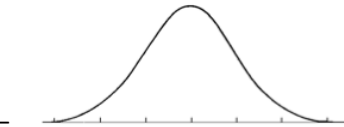
17. between 102 and 130? \_\_\_\_\_



18. What IQ score would be at the 90th percentile? \_\_\_\_\_



19. What IQ score would be at the 25th percentile? \_\_\_\_\_



**(#20-25) Identify the sampling method:** *simple random, cluster, stratified, convenience, voluntary response, or systematic.*

20. A market researcher randomly selects 200 drivers under 35 years of age and 100 drivers over 35 years of age. \_\_\_\_\_

21. All of the teachers from 85 randomly selected nation's middle schools were interviewed.  
\_\_\_\_\_

22. To avoid working late, the quality control manager inspects the last 10 items produced that day.  
\_\_\_\_\_

23. The names of 70 contestants are written on 70 cards, The cards are placed in a bag, and three names are picked from the bag. \_\_\_\_\_

24. To ensure customer satisfaction, every 35th phone call received by customer service will be monitored. \_\_\_\_\_

25. Based on 12,500 responses from 42,000 surveys sent to its alumni, a major university estimated that the annual salary of its alumni was 92,500. \_\_\_\_\_

26. Describe the difference between an observational study and an experiment.  
\_\_\_\_\_