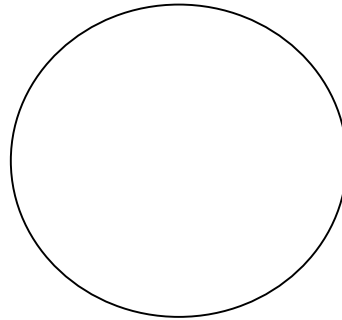


7. **The mean age of 19 members of the business group is 40, if a 50 year old man joins the group, find the mean of the business group.

8. **To make a circle graph for the following data, find the measure of the central angle for CLOTHING.

| | |
|----------|-------|
| Savings | \$300 |
| Housing | 500 |
| Clothing | 200 |
| Food | 800 |
| Other | 200 |

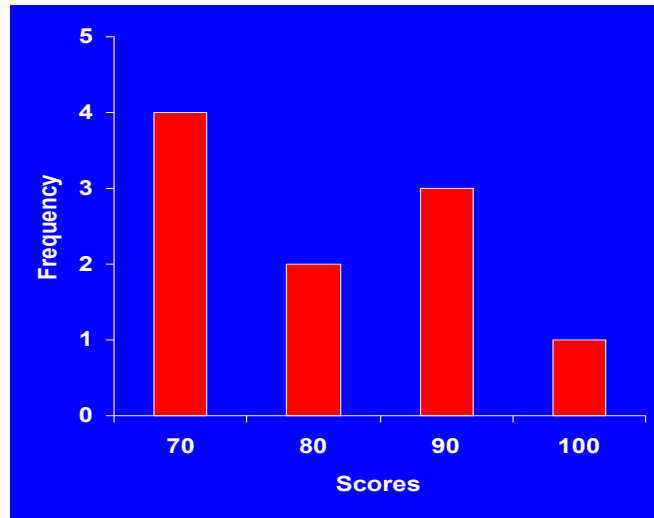


9. **The heights of 400 students were measured and the mean was found to be 74 inches with a standard deviation of 5 inches. If the heights are approximately normally distributed, about how many students are between 79 and 84 inches tall?

10. **In Ted's class of 30 students, the average on the math exam was 80. Andrew's class with 40 students had an average of 90. What is the mean of the two classes when combined?

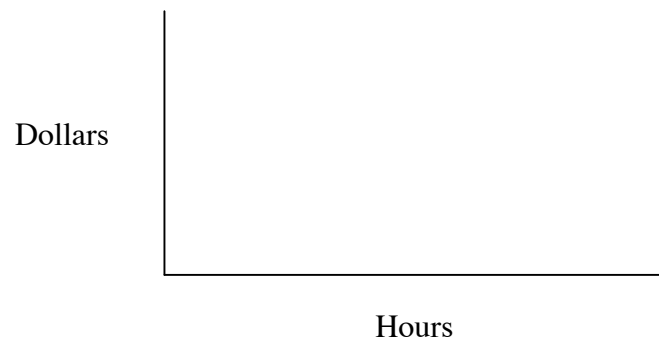
11. **Construct a Stem & Leaf graph for the following data:
65, 87, 70, 62, 61, 85, 85, 87, 82, 81, 91, 93, 54, 97, 99
12. *Class A's mean was 79 with standard deviation 3. Class B's mean was 82 with a standard deviation of 11, if you were a teacher, which class would you rather teach and why?
13. ***Write the formula for finding the "z score"
14. **Construct a Box & Whisker graph for the following data:
100, 65, 87, 70, 62, 61, 85, 83, 99, 87, 82, 81, 91, 93, 54, 97

15.



Use the graph to find the mean, median, mode, and range.

16. **Draw a line graph to show the following relationship: Ted has \$20 in the bank and his Dad will put in an addition \$5.00 for every hour he works on his homework on Saturday.



17. **If the mean on the final exam in mathematics was 66 with a standard deviation 12 and Ted scored a 60, find his corresponding z-score and approximate percentile rank.

18. **If Juan ranked 15th in his class of 300 students, what is his percentile rank?
19. **John's average on his first four tests is 88. To earn an A, he must have an average pf at least 90, what is the lowest grade he can earn on his next test to earn an A?
20. *The mean age of the first seven people to arrive at the party was 21. When Carlos, who is 29, arrived, the mean age increased to 22. Then Mary arrived, who is also 29. Finally Gramps arrived and the mean age increased to 30, how old is Gramps?
21. ***Write a home phone, cell number, email or home address to contact your parent or guardian. (CHP)