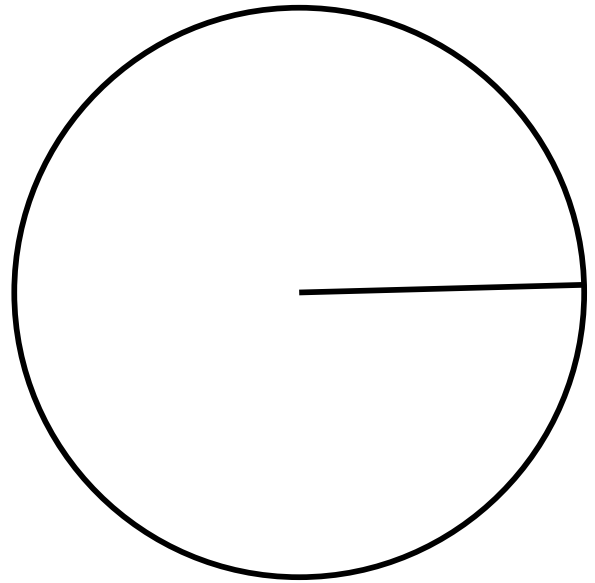1. Make a circle graph to display the numbers of chorus members from each grade as a fraction of the total number of chorus members.

Chorus Members	
Fourth Grade	200
Fifth Grade	120
Sixth Grade	280
Seventh Grade	40
Eighth Grade	160

Use the graph shown for questions 2 – 5. It shows the numbers of yards rushed by position by a football team for a season.

2. What position rushed for the least yards?

3. About how many yards were rushed by the Quarter back?

4. What position produced the most yards?

5. How many yards were rushed in total?
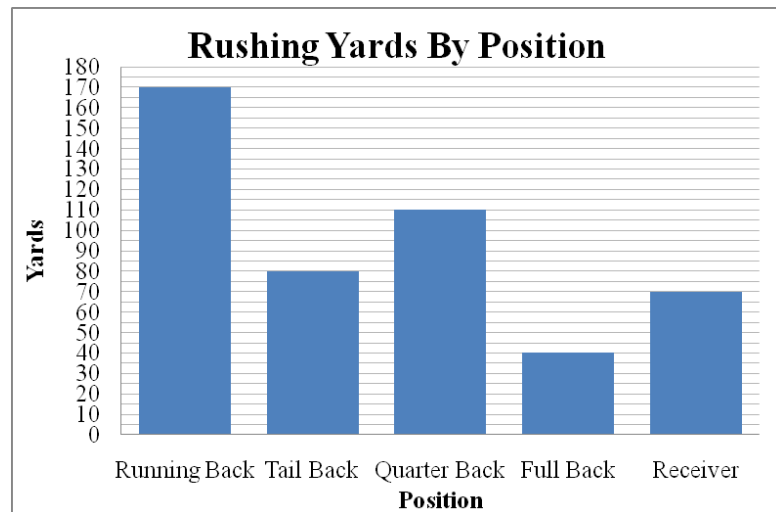
For questions 6 and 7, use the data below. The data are the responses of 30 seventh graders who were asked how many Movies on DVD they had in their rooms.

10, 8, 4, 11, 10, 11, 6, 2, 4, 3, 12, 13, 10, 6, 15, 7, 13, 2, 11, 10, 5, 4, 15, 14, 2, 12, 16, 8, 4, 3

6.   Make a frequency table to organize the data using intervals of 4, starting with 0 – 4.

7.   Make a histogram of the data displayed in your frequency table.

| Interval	Tally	Frequency
0 – 4		
5 – 8		
9 – 12		
13 – 16		
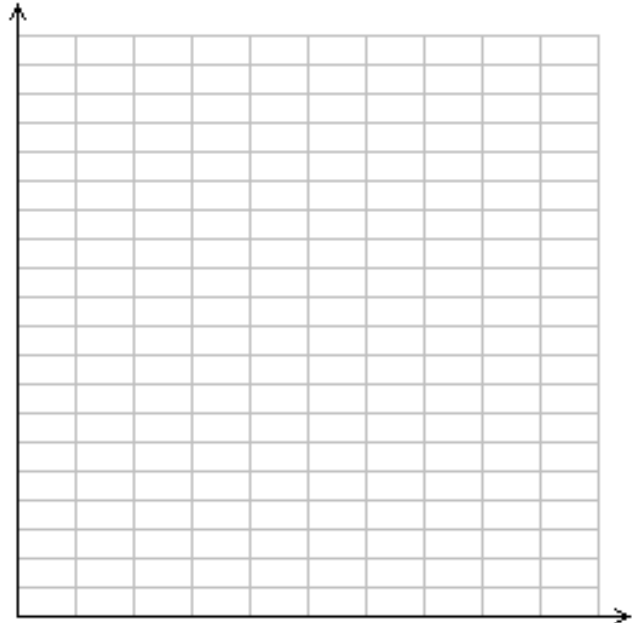
The table shows the attendance capacity of the University of Notre Dame football stadium from 1914 to 1998.

Year	1914	1921	1927	1949	1956	1973	1998
Table	25,000	50,000	85,000	90,000	110,000	110,000	120,000

8.   Make a line graph of the data.

9.   Describe how the data has changed over time.
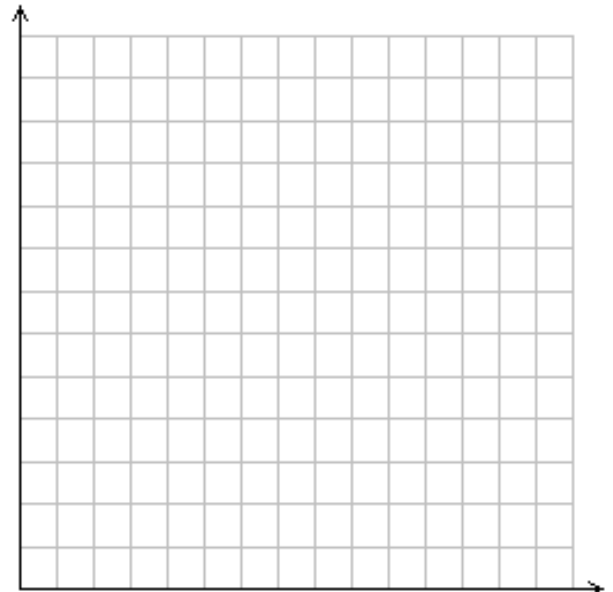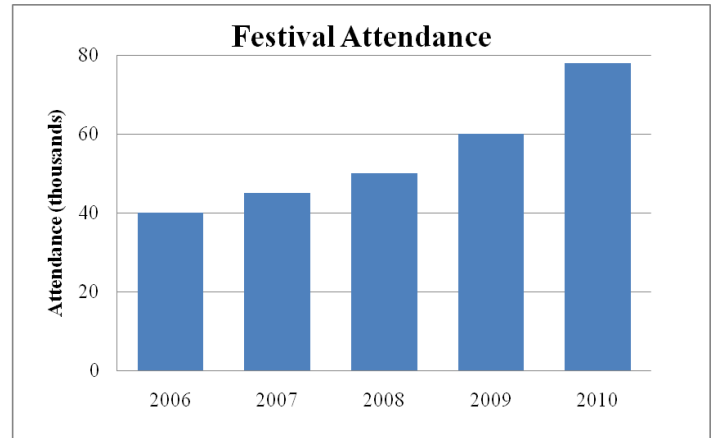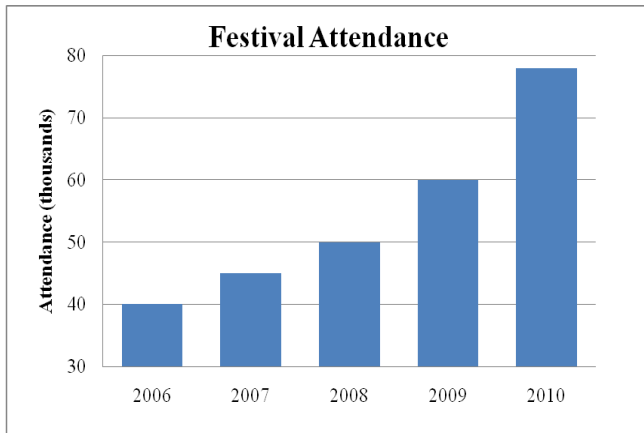
Use the following pictograph for problems 10 – 14.

Test Grades by Letter	
A	
B	
C	
D	
F	
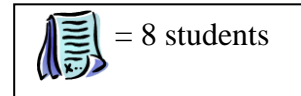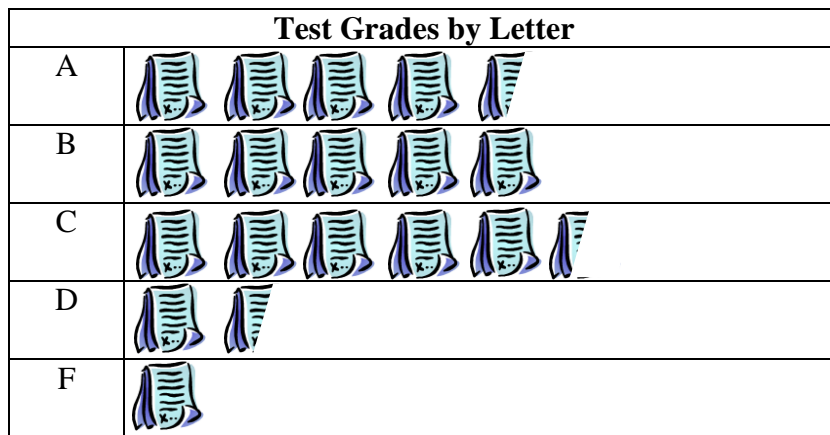
 = 8 students

10. Which grade has the most students?

11. How many more students earned an "B" than an "D"?

12. How many more students earned a "C" than an "A"?

13. How many total students took the test?

14. What is the ratio of the number of student who earned a "B" to the total numbers of students?

For questions 15 – 17, tell which type of display you would use for the following data described. Explain your reasoning.

15. the fraction of each style of car sold over the total number of cars sold.

16. the number of each style of car sold.

17. the number of cars sold each year.

18. Compare the sales for two competitors. What is misleading about the comparison?

Festival Attendance

Left chart: Attendance (thousands) on y-axis (30 to 80), years 2006–2010 on x-axis.
- 2006: 40
- 2007: 45
- 2008: 50
- 2009: 60
- 2010: 78

Festival Attendance

Right chart: Attendance (thousands) on y-axis (0 to 80), years 2006–2010 on x-axis.
- 2006: 40
- 2007: 45
- 2008: 50
- 2009: 60
- 2010: 78

Use the following data of distances run by a jogger for questions 20 – 24.

    32 km, 46 km, 22 km, 12 km, 30 km, 46 km, 34 km, 32 km

20. Find the mean.

21. Find the mode.

22. Find the median.

23. Find the range.

24. Which measure of central tendency is the most appropriate for this set of data?