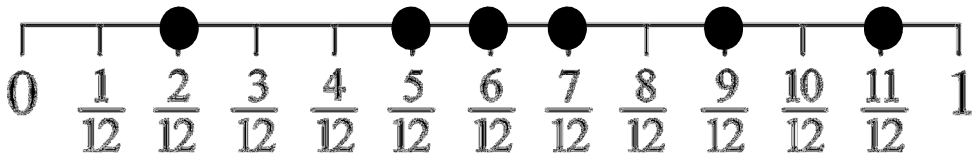
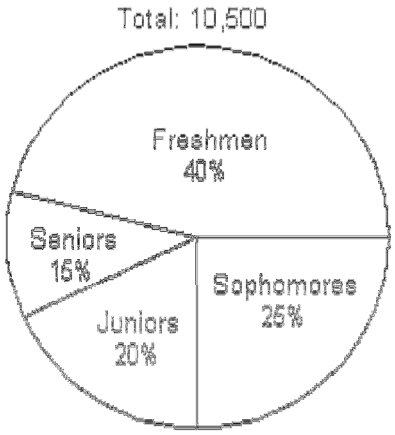
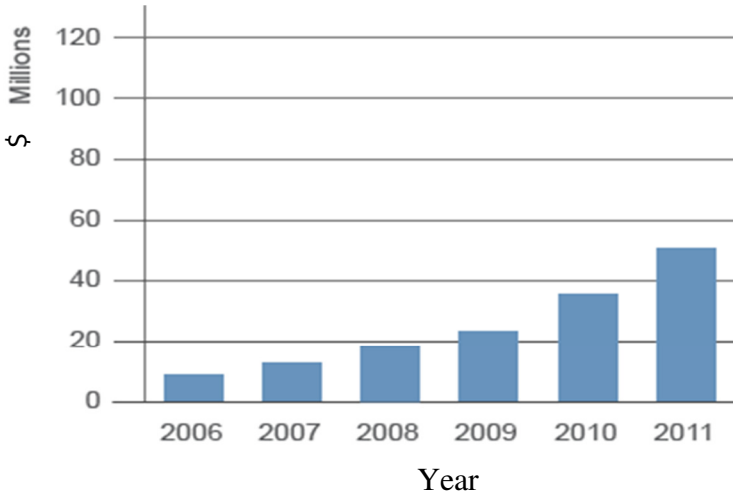
Sixth Grade Review 13: **Statistics** Name:

Show all work on a separate sheet of paper.

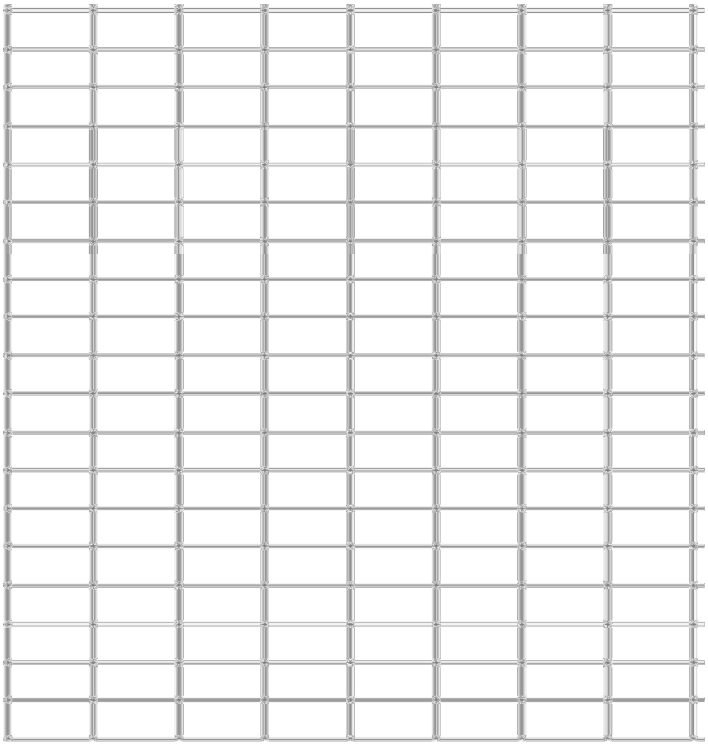
1.	Mr. Underwood kept track of the points the Texas A&M football team scored in its first seven games: 52, 65, 42, 42, 45, 41, 41 What was the median points scored by Texas A&M in these 7 games? A. 24 B. 41 C. 42 D. 45	
2.	Mr. Mangham kept track of the points the Duke basketball team scored in its first nine games: 111, 83, 97, 91, 83, 91, 74, 66, 79 What was the range of points scored by Duke in these 9 games? A. 83 B. 91 C. 45 D. 55	
3.	Mrs. Fauatea kept track of the runs the New York Yankees scored in their first ten games: 2, 4, 4, 3, 4, 7, 11, 14, 5, 3 What is the mode of these 10 games? A. 3 B. 4 C. 7 D. 12	
4.	Dr. Giffin kept track of the fantasy football points scored by Robert Griffin III during his first eight games of the season: 19, 26, 9, 16, 0, 9, 27, 8 RGIII scored a total of 114 points. Which statement about Dr. Giffin's data is NOT true? A. The median score for RG III is greater than 10. B. The mode of the scores for RGIII 9. C. The mean score for RGIII less than 15. D. The range of scores for RGIII is 19.	
5.	Mrs. Atkins loves bugs. She plotted the length (in centimeters) of different bugs she found crawling on the ground.  What is the range of the lengths of the bugs, in centimeters?	

6.	Mr. Wright loved having Matt Forte on his fantasy football team. These were Matt Forte's first seven scoring games: 19, 24, 20, 22, 16, 16, 30 What is the mean score for Matt Forte during these 7 games? A. 14 B. 16 C. 20 D. 21	
7.	The circle graph below represents students enrolled at a local college.  What fraction of the students are freshman and sophomores? A. $\frac{13}{20}$ B. $\frac{55}{100}$ C. $\frac{3}{5}$ D. $\frac{7}{20}$	
8.	The graph below represents the amount of money spent to assist small, growing business from 2006 to 2011. If the money trend shown in the table continues, which is the best prediction of the money spent in 2012?  A. \$28 million C. \$70 million B. \$45 million D. \$92 million	

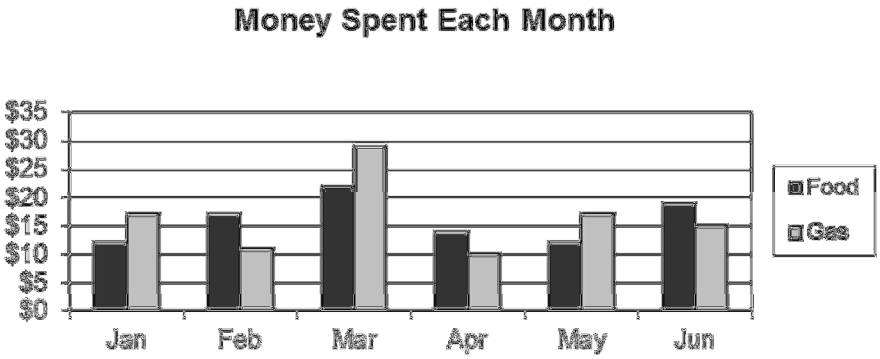
9.

Make a line graph of the data in the table. Use a reasonable increment and be sure to label.

Year	Number of Wolves
1995	8
1996	14
1997	27
1998	45
1999	56
2000	68
2001	83



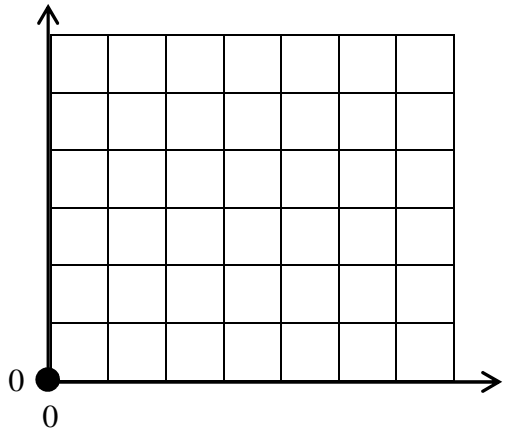
Use the graph below to answer the following questions.



10.	Which month had the most spent on gas?	
11.	How much more money was spent on food than gas in February? A. $2 B. $6 C. $17 D. $28	
12.	If the final six months of the year were similar to the first six, how much money was spent on food for the entire year? A. $96 B. $122 C. $154 D. $192	
13.	Which statement is best supported by these data? A. In January, twice as much money was spent of gas compared to food. B. More money is spent each month on food than gas. C. The largest decrease in gas money was from March to April. D. The median cost month for food was in June.	

14. Graph the points on the coordinate grid below and label the coordinates of each point.

A (6,5) B (2,4) C (0,4) D (3,0)



15.	Find the mean, median, mode, and range of the following set of data. {7, 9, 7, 8, 11, 7, 6, 9, 8}	Mean	Median
		Mode	Range

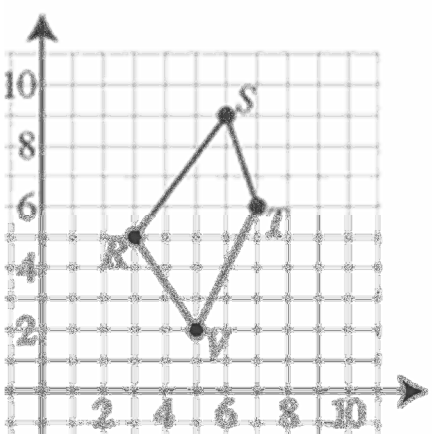
16. The stem-and-leaf plot below shows the ages of people at Mrs. Johnsen's family reunion.

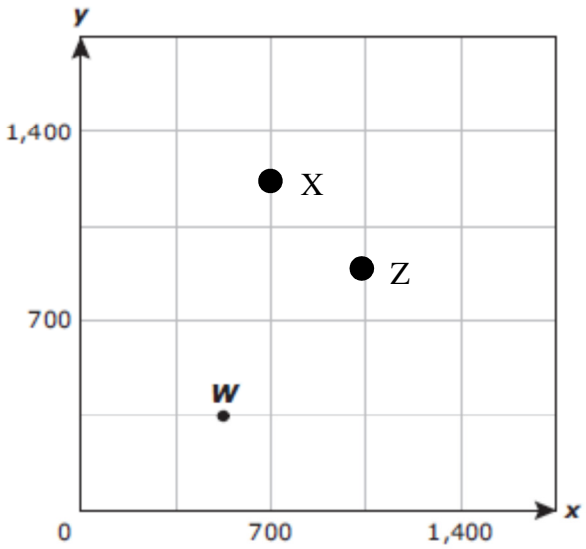
Ages of People at Family Reunion	
Stem	**Leaf**
0	1, 8, 9
3	2, 4, 7
4	5
5	1, 5
8	1

Key 5|1 = 51 years old

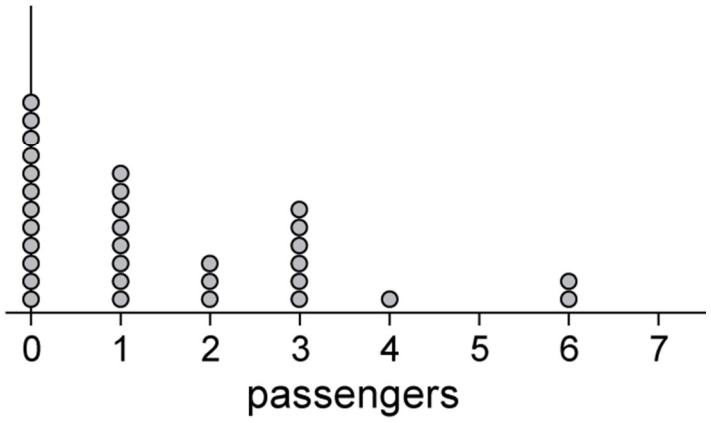
Which statement is best supported by the information in the plot?

A. More than half of the people were in their 30s at the reunion.
B. The range of the people's ages at the reunion was 80 years.
C. The median age of people at the reunion was 45 years.
D. The youngest person at the reunion was 8 years old.

17.	The circle graph below shows the expenditures at a community theater. Which of the following statements is **NOT** supported by the graph?  A. The amount spent of costumes and props is twice the amount spent on physical plant. B. Staff salaries make up $\frac{1}{4}$ of the total cost at the theater. C. Set construction and costumes and props make up more than half of all the expenditures. D. Of all the money spent, $\frac{9}{10}$ is spent on items other than physical plant.	
18.	A polygon is shown below on the coordinate grid.  If Point V is moved to the right $1\frac{1}{4}$ and up $2\frac{3}{4}$ where will the new point be located? A. $\left(6\frac{1}{4},4\frac{3}{4}\right)$ C. $\left(4\frac{1}{4},7\frac{3}{4}\right)$ B. $\left(3\frac{1}{4},7\frac{3}{4}\right)$ D. $\left(8\frac{1}{4},8\frac{3}{4}\right)$	

19.	Which ordered pair appears to be located 350 units down and 700 units to the left of point Z?  A. (700, 175) C. (525, 350) B. (350, 525) D. (175, 700)	
20.	Students at Wonka Middle School are assigned to one of two teams: Oompas or Loompas. Each student will randomly draw one of 200 golden tickets. Of the tickets, 80 say Oompa and the rest say Loompa. What fraction represents the probability that new student Charlie will end up on the Loompas?	

21. Valerie studied the new bus route that came near her house. She made the following line plot showing the number of passengers on the bus over a series of days.



Which of the following statements is best supported by the data in the plot?

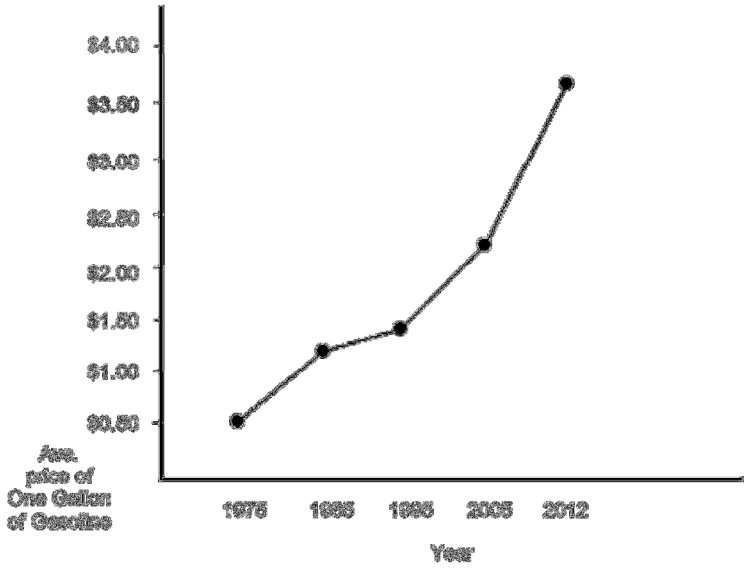
A. There were twice as many days with 3 passengers as there were with 6 passengers.
B. More than 50% of the days had two or more passengers.
C. The median for the set of data is 3.
D. The mean of the set of data is greater than the mode.

22. The audience on American Idol rated Mr. Mangham's audition on a scale of 1-10. The results were placed in the frequency table below.

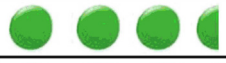
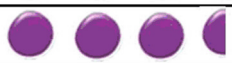
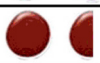
Marks	Tally	Frequency
1	///	3
2	///	3
3	//	2
4	//	2
5	//	2
6	////	5
7	////	4
8	////	5
9	//	2
10	//	2
Total		30

Which of the following statements in true based on the data in the table?

A. Mr. Mangham was the best singer in the history of American Idol.
B. More than half of Mr. Mangham's scores were 6 or higher.
C. Mr. Mangham's median score was an 8.
D. Audience members that gave him a 1 need to have their hearing checked.

23.	The line graph below the average price of a gallon of gas over time.  Which of the following statements is best supported by the data in the graph? A. From 1975 to 2012 the average price of gas has been above $2.50 for more than half of the time. B. From 1985 to 1995 the average price of gas decreased. C. The largest increase in the price of gas happened between 2005 and 2012. D. The price of gas has increased because more cars are on the road today compared to 1975.	

24. The pictograph below shows the number of Smarties, by color, that SpongeBob ate last Saturday.

Colour	Number of Smarties	Frequency
Green		7
Orange		8
Blue		5
Pink		6
Yellow		11
Red		8
Purple		7
Brown		3
	Key = 2 smarties	

Which statement below is best supported by the infornation in the table?

A. The ratio of pink Smarties to orange Smarties is 4 to 3.

B. The total number of Smarties he ate was $27\frac{1}{2}$.

C. He ate two more yellow Smarties than purple Smarties.

D. The median number of Smarties of the colors is 7.

25. A librarian recorded the number of books that were checked out on each of the last 9 days shown below.

142, 136, 125, 148, 150, 152, 115, 131, 136

Which measure of data shows how much the number of checked out books varies of the last 9 days?

A. Mean
B. Median
C. Mode
D. Range