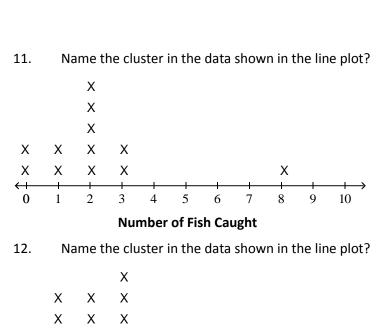
~ .1	α 1	3 / /1
5th	Grade	· Math

Study Guide Test 10 Data

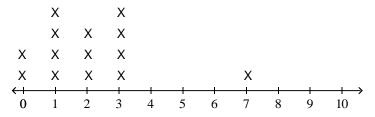
Date: _____

- 1. Find the range, mean, median, and mode of the following data set. 5, 17, 21, 21, 7, 13, 1, 3
- 2. Find the range, mean, median, and mode of the following data set. 10, 3, 13, 7, 9, 8, 8, 20
- 3. Find the range, mean, median, and mode of the following data set. 14, 19, 19, 12, 2, 1, 15, 22, 22
- 4. Find the range, mean, median, and mode of the following data set. 25, 21, 13, 5, 4, 8, 14, 13
- 5. Find the range, mean, median, and mode of the following data set. 10, 8, 20, 16, 3, 4, 16
- Find the range, mean, median, and mode of the following data set.
 7, 4, 11, 19, 7, 18, 3
- 7. Find the range, mean, median, and mode of the following data set. 7, 21, 12, 3, 21, 10, 21
- 8. Find the range, mean, median, and mode of the following data set. 7, 19, 8, 3, 12, 4, 21
- 9. Find the range, mean, median, and mode of the following data set. 18, 14, 3, 24, 15, 21, 22, 3, 18
- 10. Find the range, mean, median, and mode of the following data set. 15, 22, 14, 1, 19, 22, 14, 22



Number of Fish Caught

13. Name the cluster in the data shown in the line plot?



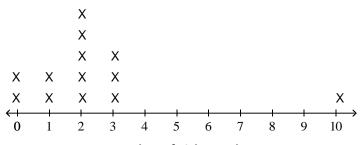
Number of Fish Caught

14. Name the cluster in the data shown in the line plot?



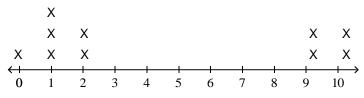
Number of Fish Caught

15. Name the cluster in the data shown in the line plot?



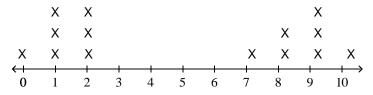
Number of Fish Caught

16. Name the cluster in the data shown in the line plot?



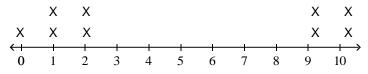
Number of Snow Days

17. Name the cluster in the data shown in the line plot?



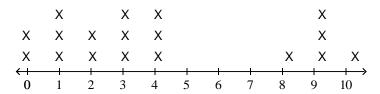
Number of Snow Days

18. Name the cluster in the data shown in the line plot?



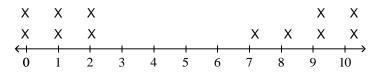
Number of Snow Days

19. Name the cluster in the data shown in the line plot?



Number of Snow Days

20. Name the cluster in the data shown in the line plot?



Number of Snow Days

21. Organize the data in a line plot.

Quiz Scores	
Score	Frequency
1	0
2	2
3	4
4	8
5	3

22. Organize the data in a line plot.

Quiz Scores		
Score	Frequency	
1	0	
2	3	
3	4	
4	7	
5	3	

23. Organize the data in a line plot.

Quiz Scores	
Score	Frequency
1	1
2	4
3	4
4	8
5	4

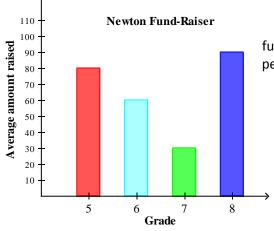
25. Organize the data in a line plot.

Quiz Scores	
Score	Frequency
1	2
2	2
3	4
4	5
5	6

Graph 6-7.2

•	Average Cost of Computers
1000- 900- 850- 800- 750- 650- 650- 550-	
+	2000 2001 2002 2003
	Year
27 4	according to Chamb C 7.2 which w

- 28. According to Graph 6-7.2, how much did the total price of computers drop from 2002 to 2003?
- 29.



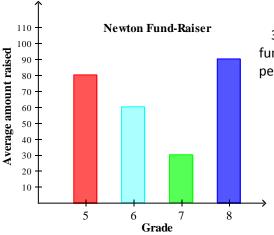
24. Organize the data in a line plot.

Quiz Scores	
Score	Frequency
1	1
2	2
3	5
4	6
5	4

26. Organize the data in a line plot.

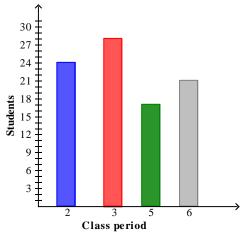
Quiz Scores	
Score	Frequency
1	0
2	4
3	5
4	8
5	5

- According to Graph 6-7.2, which year has been the most expensive for computers so far? 27.
 - According to Graph 6-7.2, what was the average price of a computer in 2001?
 - Newton School district sold candy in grades 5 8 as a 30. fund-raiser. The bar graph shows the average amount of money raised per student in each grade.
 - a. Which grade raised the most money?
 - b. Which grade raised the least money?



- 31. Newton School district sold candy in grades 5-8 as a fund-raiser. The bar graph shows the average amount of money raised per student in each grade.
 - a. How much more money was raised by the 5th grade than the 7th grade?
 - b. How much more money was raised by the 8th grade than the 6th grade?
- 32. Mr. Gleeson teaches 4 math classes. According to the graph below, which class period has the most students?

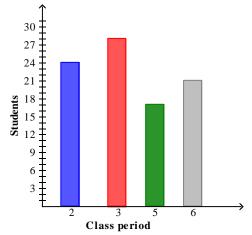
Mr. Gleeson's Math Classes

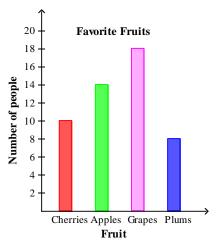


34. In a recent food study, 50 people were asked what fruit they like the best. The graph on the right shows the results. How many people prefer grapes?

33. Mr. Gleeson teaches 4 math classes. According to the graph below, which class period has the least students?

Mr. Gleeson's Math Classes





35. In a recent food study, 50 people were asked what fruit they like the best. The graph on the right shows the results. How many more people prefer apples than cherries?

Favorite Fruits

18

16

14

12

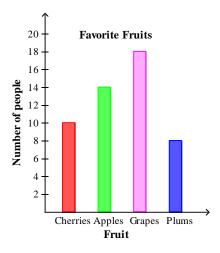
10

8

Cherries Apples Grapes Plums

Fruit

36. In a recent food study, 50 people were asked what fruit they like the best. The graph on the right shows the results. How many more people prefer grapes than plums?



37. George comes from a large family. He also has four friends with large families. Below is the number of people in each family. Use the data in the table to create a bar graph.

Person	Number in Family
George	8
David	7
Fred	12
Bobby	9
Juan	11

38. The results of a survey on people's favorite type of media are shown in the table. Use the data to create a bar graph.

Type of Media	Number of People (hundreds)
Newspapers	3
Radio	2
Television	6
Books	3
Magazines	2.5

39. The results of a survey on people's favorite type of media are shown in the table. Use the data to create a bar graph.

Type of Media	Number of People (hundreds)
Newspapers	2
Radio	2
Television	6
Books	3
Magazines	2.5

40. The results of a survey on people's favorite type of media are shown in the table. Use the data to create a bar graph.

Type of Media	Number of People (hundreds)
Newspapers	3
Radio	2
Television	6
Books	2.5
Magazines	3

41. Use the data in the table below to make a line graph.

Number of Games Won by Sixth Grade Boys Basketball							
Year	2000	2001	2002	2003			
Games	16	12	19	25			

42. Use the data in the table below to make a line graph.

High School Play Attendance							
Grade	9	10	11	12			
Number of Students 135 165 115 140							

43. Use the data about the city of Johnsonville and their blizzard of 1996 to make a line graph.

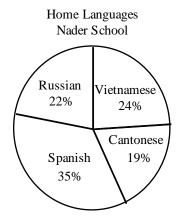
Date	Snowfall		
December 18	7 in.		
December 19	14 in.		
December 20	18 in.		
December 21	14 in.		
December 22	8 in.		

44. Use the data in the paragraph below to make a line graph showing the number of tires reported in the warehouse during the week.

Day of Week	Number of Tires
Monday	38
Tuesday	63
Wednesday	112
Thursday	64
Friday	57

45. The circle graph below shows the percentages of main languages spoken at home by the students at Nader Newcomer School. Use the graph to find out what percent of students do *not* speak Spanish as their main home language.

46. The circle graph below shows the percentages of main languages spoken at home by the students at Alberta Newcomer School. Use the graph to find out which language is most commonly spoken in students' homes.

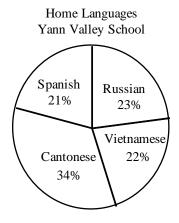


- Home Languages
 Alberta School

 Vietnamese
 25%

 Cantonese
 22%

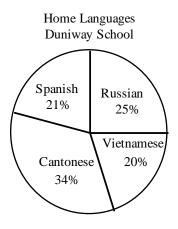
 Spanish
 21%
 32%
- 47. The circle graph below shows the percentages of main languages spoken at home by the students at Yann Valley Newcomer School. Use the graph to find out which language is most commonly spoken in students' homes.
- 48. The circle graph below shows the percentages of main languages spoken at home by the students at Isolde Newcomer School. Use the graph to find out what percent of students do *not* speak Spanish as their main home language.



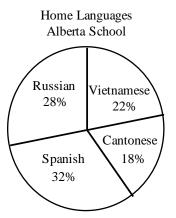
Home Languages
Isolde School

Cantonese
29%
Spanish
21%
Russian
Vietnamese
33%

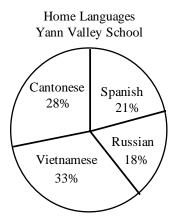
49. The circle graph below shows the percentages of main languages spoken at home by the students at Duniway Newcomer School. Use the graph to find out which language is most commonly spoken in students' homes.



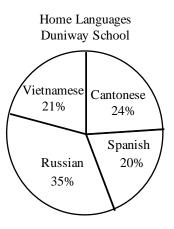
50. The circle graph below shows the percentages of main languages spoken at home by the students at Alberta Newcomer School. Use the graph to find out what percent of students do *not* speak Spanish as their main home language.



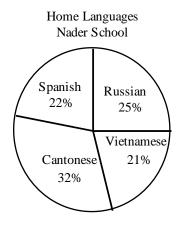
51. The circle graph below shows the percentages of main languages spoken at home by the students at Yann Valley Newcomer School. Use the graph to find out what percent of students do *not* speak Spanish as their main home language.



52. The circle graph below shows the percentages of main languages spoken at home by the students at Duniway Newcomer School. Use the graph to find out which language is most commonly spoken in students' homes.

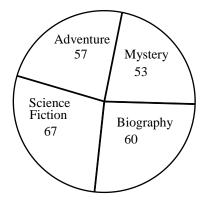


53. The circle graph below shows the percentages of main languages spoken at home by the students at Nader Newcomer School. Use the graph to find out which language is most commonly spoken in students' homes.

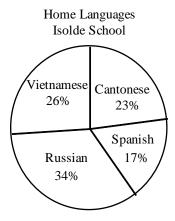


55. Use the circle graph below to find out how many more 5th graders would rather read science fiction novels than adventure books.

Types of Books Preferred by 5th Graders at Creekside School

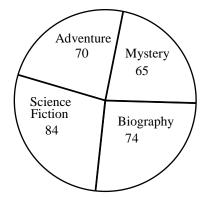


54. The circle graph below shows the percentages of main languages spoken at home by the students at Isolde Newcomer School. Use the graph to find out what percent of students do *not* speak Vietnamese as their main home language.



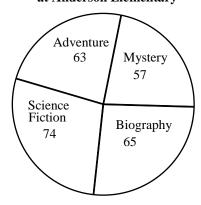
56. Use the circle graph below to find out how many 5th graders do not prefer science fiction novels.

Types of Books Preferred by 5th Graders at Benson School



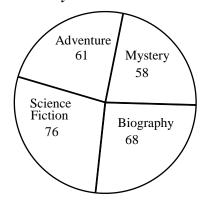
57. Use the circle graph below to find out how many 5th graders participated in the survey.

Types of Books Preferred by 5th Graders at Anderson Elementary



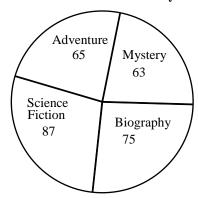
58. Use the circle graph below to find out how many more 5th graders would rather read science fiction novels than adventure books.

Types of Books Preferred by 5th Graders at Lyndale School

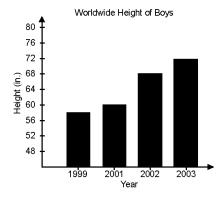


59. Use the circle graph below to find out how many 5th graders participated in the survey.

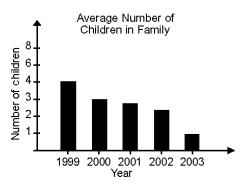
Types of Books Preferred by 5th Graders at Robinson Elementary



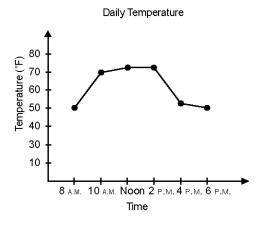
60. Explain why the bar graph below is misleading.



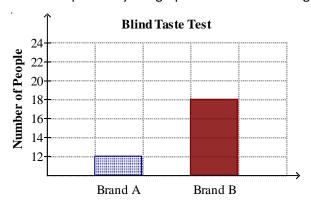
61. Explain why the bar graph below is misleading.



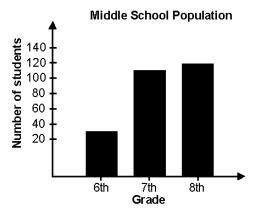
63. Explain why the line graph below is misleading.



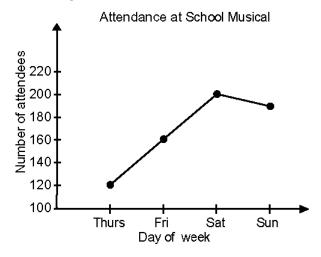
65. Explain why the graph below is misleading.



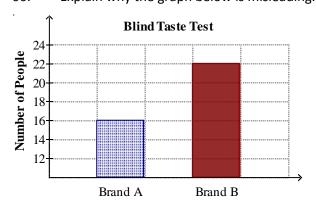
62. Explain why the bar graph below is misleading.



64. Explain why the line graph below is misleading.

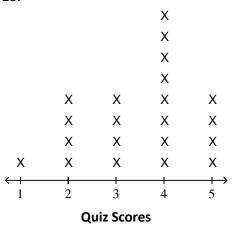


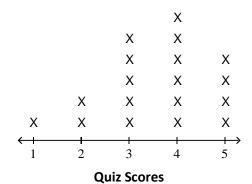
66. Explain why the graph below is misleading.



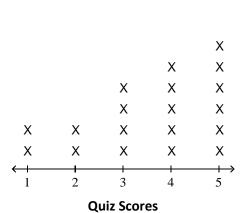
Answer Section

1.	Range 2				4.	Range 21				М	ode 21
	Mean 1 Median Mode 2	10				Mean 12.9 Median 13 Mode 13			8.	М	inge 18 ean 10.6 edian 8
2.	Range 1				5.	Range 17					ode none
	Mean 9 Median					Mean 11 Median 10			9.	Ra	inge 21
	Mode 8					Mode 16					ean 15.3 edian 18
3.	Range 2				6.	Range 18				ode none	
	Mean 1 Median					Mean 11.3 Median 9			10.	Ra	inge 21
	Mode n					Mode 7			10.	М	ean 16.1
					7.	Range 18					edian 17 ode 22
						Mean 13.6					
						Median 12					
11.	0-4						16.	1-2			
12.	1-3						17.	1-2 & 8	-9		
13.	0-3						18.	1-2 & 9	-10		
14.	0-3						19.	0-4			
15.	0-3						20.	0-2			
21.			Х				22.				
			X							Х	
			X							X	
			Χ							Χ	
		Χ	Χ						Χ	Χ	
		Χ	Χ	Χ				X	Χ	Χ	Χ
	X	Χ	Χ	Χ				Χ	Χ	Χ	Χ
	Х	Χ	Χ	X				X	Χ	Χ	X
1	2	3	4	$\xrightarrow{5}$			1	2	3	4	→ + → 5
Quiz Scores								Qı	uiz Score	es	

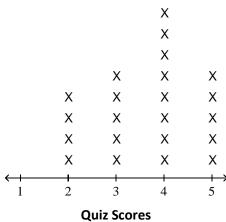




25.



26.



27. 2000

28. \$150

29. \$845

30. a. The grade that sold the most is the $8^{th}_{\ \ \mu}$ grade.

b. The grade that sold the least is the 7th grade.

31. a. 50 dollars b. 30 dollars

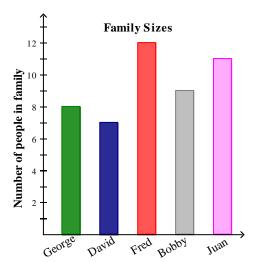
32. Period 3

33. Period 5

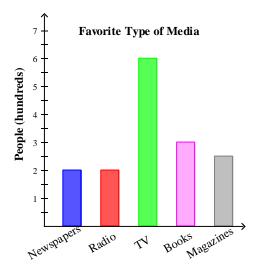
34. 18 people

35. 4 people

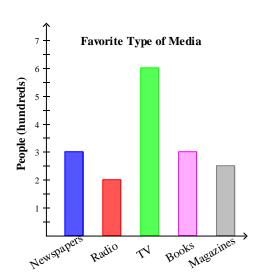
36. 10 people



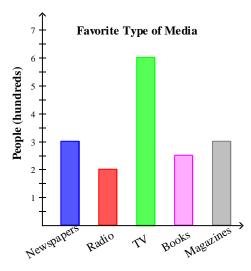
38.



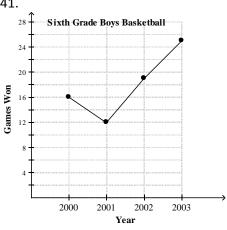
39.



40.



41.



Play Attendance 42. 140 Number of Students 120 100 80 60 40 20

9

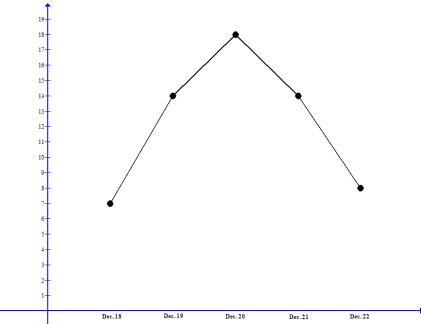
10

Grade Level

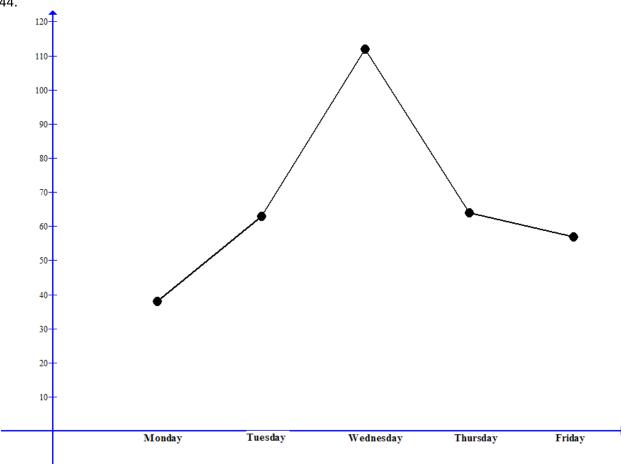
11

12





44.



45. 65%	53. Cantonese
46. Russian	54. 74%
47. Cantonese	55. 10
48. 79%	56. 209
49. Cantonese	57. 259
50. 79%	58. 15
51. 68%	59. 290

52. Russian

- 60. The bar graph is misleading because the lower half of the vertical scale is missing. The differences in height are exaggerated. The graph also does not have a break shown with the vertical scale.
- 61. The bar graph is misleading because the vertical scale is not shown in equal intervals. The interval on the scale begins as one unit and then increases to two units.
- 62. The bar graph is misleading because the scale is not accurately drawn. It appears as though the number of sixth-graders is nearly half the number of seventh-graders..
- 63. The line graph is misleading because the vertical scale is not shown in equal intervals. The interval on the scale begins as 10 units and then increases to 20 units then decreases again to 10 units.
- 64. The line graph is misleading because the lower part of the vertical scale is missing, so the differences in attendance are greatly exaggerated.
- 65. The vertical scale makes it appear that Brand B is four times as popular as Brand A.
- 66. The vertical scale makes it appear that Brand B is twice as popular as Brand A.