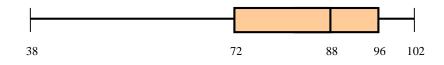
Name	Due Date	Period
Name	Duc Daic	_1 C110u

16.2 Box & Whisker Comparison

For questions 1-6, refer to the box & whisker graph below which shows the test results of a math class.

Test Scores (as %) for 6th Period

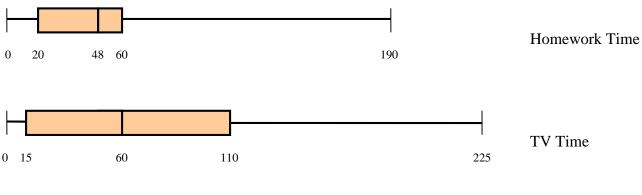


- 1. What was the high score on the test?
 - 2. What percent of the class scored above a 72?
 - 3. What was the median score on the test?
- 4. What percent of the class scored between 88 & 96?
- 5. Do you think that this test was too hard for the students? Explain.

6. Would you expect the mean to be above or below the median? Explain.

For questions 7 - 18, refer to the box & whisker graphs below that compare homework time per night with TV time per night for the same group of sophomores.

TV & Homework Minutes per Night



- 7. What percent of the sophomores watch TV for at least 15 minutes per night?
- 8. What is the 3rd quartile for the TV time data?

9. Is it more common for a sophomore at this high school to spend more than 1 hour on homework or more than 1 hour watching TV? Explain.						
For question	s $10 - 18$, identify if each statement is true, false, or cannot be determined.					
	10. Some sophomores didn't watch TV that month.					
	11. The TV box & whisker graph contains more data than the homework graph.					
	12. 25% of the sophomores spend between 48 & 60 minutes per night on homework.					
	13. 15% of the sophomores didn't watch TV that month.					
	 In general, these sophomores spend more time watching TV than doing homework. 					
	15. The TV data is more varied than the homework data.					
	16. The ratio of sophomores who spend more than 110 minutes per night watching TV to those who spend less is about 2:1.					
	17. 225 sophomores watch TV.					
	18. Twice as many sophomores watch TV for more than 1 hour than do homework for more than 1 hour.					

For questions 19-35, refer to the following data that shows the total number of points scored in each of the rose bowls from 1970 until 2006.

Year	Total Points	Year	Total Points	Year	Total Points	Year	Total Points
1970	13	1980	33	1990	27	2000	26
1971	44	1981	29	1991	60	2001	58
1972	25	1982	28	1992	48	2002	51
1973	59	1983	38	1993	69	2003	48
1974	63	1984	54	1994	37	2004	42
1975	35	1985	37	1995	58	2005	75
1976	33	1986	73	1996	73	2006	79
1977	20	1987	37	1997	37	2007	50
1978	47	1988	37	1998	37		
1979	27	1989	36	1999	69		

19.	Make a box & whisker graph for the total points scored in each decade. Make sure your 4 raphs are drawn with the same scale so you can compare them.				
Ref	er to your box & whisker graphs to answer the following questions.				
	20. In which decade is the total points scored the most consistent?				
	21. In which decade is the total points scored the most diverse?				
	22. In which decade is the largest number of total points scored?				
	23. In which decade is the 3 rd quartile the highest?				
	24. In which decade is the median the highest?				
	25. In which decade is the 1 st quartile the highest?				
	26. In which decade is the outlier the most dramatic? Explain.				
27.	What is the general trend that your 4 box & whisker graphs reveal?				

28. Come up with two data sets that each have 5 elements, each have a mean & a median of 9, but whose box & whisker graphs would be dramatically different.