

Day 2

1. The table below shows the number of cans collected by several homerooms during a canned food drive.

Room	Canned Goods	Room	Canned Goods
A	150	E	10
B	300	F	25
C	55	G	200
D	40	H	100

- a) Find the mean, median and mode of the data.
 b) Explain why the mean is larger than the median for this data set.
2. The table below shows the average yearly rainfall in Los Angeles for the past ten years. The rainfall is measured in inches from July through June.

Year	14-15	13-14	12-13	11-12	10-11	09-10	08-09	07-08	06-07	05-06
Inches	8.52	6.08	5.85	8.69	20.2	16.36	9.08	13.53	3.21	13.19

- a) Find the mean, median and mode of the data.
 b) Which measure of center shows the typical yearly rainfall for the last 10 years?
3. Kaitlyn's scores on her first five algebra tests were 88, 90, 91, 89 and 92. What score must she get on her 6th test so that her mean score will be at least 90?
4. Mrs. Grasel went to the grocery store to buy 5 items at an average cost of \$4 per item. She decided to add a chocolate cake which cost \$10 to her grocery cart. What is the average cost of the six items she bought?
5. The prices in dollars of paintings sold at an art auction are shown.

1800	750	600	600	1800	1350	300	1200	750	600	750	2700
600	750	300	750	600	450	2700	1200	600	450	450	300

- a. Make a frequency table for the data using 6 intervals from \$0 to \$3000.
 b. Make a histogram for the data.
 c. What price was paid most often for the artwork?
 d. What was the median price for the artwork?
 e. How many works of art sold for more than \$2000?
6. Carlos surveyed 19 friends to find the number of cans of soda they drink in an average week. His results are shown below:

0	0	0	1	1	1	2	2	3	4
4	5	5	7	10	10	10	11	11	

- a. Find the five-number summary for the data.
 b. Make a box plot for the data.