

Centers of Spread AP Stat

Name: _____

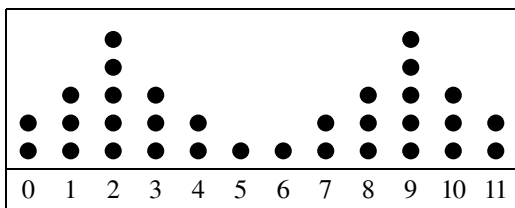
Date: _____

1. The accompanying frequency table shows data collected by the police in an automobile speed check. Which interval contains the median speed?

- A. 36–45
- B. 56–65
- C. 66–75
- D. 76–85

Speed Interval	Frequency
86–95	45
76–85	45
66–75	55
56–65	110
46–55	120
36–45	25

2. Score

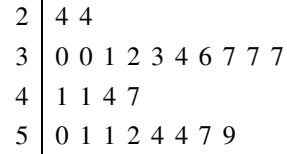


Each ● represents one student

What is the median of the dot plot?

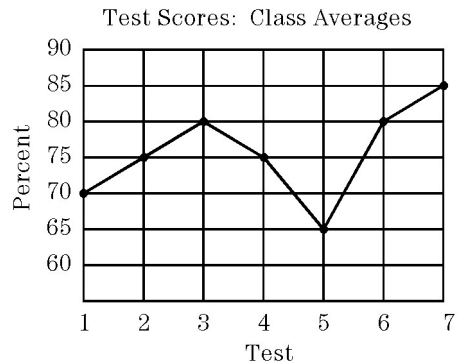
- A. 5
- B. 5.5
- C. 6.5
- D. 7

3. State the mean for the data in this stem-and-leaf plot.



- A. 36
- B. 37
- C. 39
- D. 41

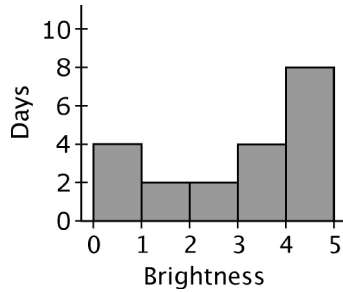
4. Mr. Andrews plotted a graph of his Calculus class averages for the first seven tests in the semester. Find the Mean score for the first 4 tests.



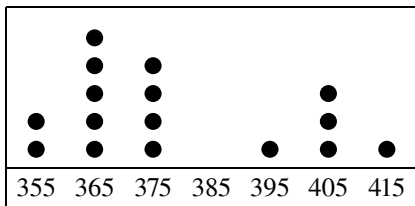
- A. 75
- B. 75.7
- C. 80
- D. 85

5. The histogram shown represents the brightness for 20 days. Zero means no sunshine and 4 means complete sunshine. What is the average amount of sunshine for the 20 days?

- A. 1
B. 2
C. 2.5
D. 3



- 6.



Each ● represents one employee

The dot plot gives the weekly wages of the 16 employees of the TipTop Company. What is the range of the weekly wages of the employees?

- A. 30 B. 55 C. 60 D. 415

7. The number of home deliveries by Papa's Pizzeria were recorded for 16 days. The data was as follows:

10, 18, 32, 27, 32, 27, 18, 11, 34, 18, 25, 34, 34, 30, 35

- a) What is the mean of the data?
b) Make a stem-and-leaf table for the data.
c) Make a box-and-whisker plot for the data.

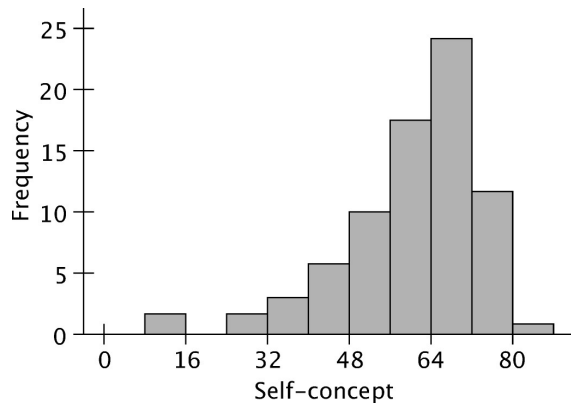
8. The table shows the starting salaries for twenty-four recent college graduates.

Name	Salary	Name	Salary
Kareem	42,125	Ben	32,900
Maria	40,100	Joaquim	32,500
Jonelle	38,750	Ryan	31,400
Carla	37,500	Nadine	29,600
Sheldon	36,125	Anthony	29,100
Nikola	35,500	Zack	28,375
Klay	34,800	Leslie	27,100
Chad	33,750	Khris	26,000

Name	Salary
Dwayne	25,500
Taj	25,000
Serge	24,500
John	23,000
Aaron	21,500
Jantel	20,000
Maya	17,000
Eric	14,500

Draw an appropriate graph of the data, then interpret your graph. What does it tell you about the distribution of salaries?

9. 78 students were given a psychological test on self-concept. A histogram of the scores is shown below.



Describe the shape of this distribution of scores.

- A. Bell curve
 - B. Skewed to the left
 - C. Skewed to the right
 - D. It is not possible to describe shape from a histogram.
10. How do the mean and median compare for this data set?
- A. The median is larger than the mean.
 - B. The mean is larger than the median.
 - C. It is not possible to calculate a median because of the gap in the data.
 - D. It is not possible to compare mean and median with a histogram.