NAME:	HW 10.1
DATE:	ALGEBRA

- 1. The heights of a group of 36 people are measured to the nearest inch. The heights range from 47 inches to 76 inches. To construct a histogram showing 10 intervals, the length of each interval should be:
  - a. 2 inches b. 3 inches c. 4 inches d. 5 inches

## 2 – 4 Use the following test grades for 18 students to complete the questions.

72	86	95	75	100	85	87	100	96

- $81 \quad 84 \quad 78 \quad 94 \quad 96 \quad 89 \quad 100 \quad 98 \quad 91$
- 2. Complete the frequency table.

Interval	Tally	Frequency
71 – 75		
76 - 80		
81 - 85		
86 – 90		
91 – 95		
96 - 100		

- 3. How many students had grades less than 81?
- 4. Construct a frequency histogram using the above frequency table.



## **5 - 6** *The heights of 15 students, in inches, are given below.* 65, 60, 64, 70, 71, 68, 65, 77, 69, 67, 66, 65, 61, 67, 70

5. Complete the frequency table.

Interval	Tally	Frequency
75 – 79		
70 - 74		
65 - 69		
60 - 64		

6. Construct a frequency histogram using the above frequency table.



7. Construct a dot plot to show the test grades of 24 students using the data below.

88	8	2	8	86	8	86	8	37	8	39	8	88	9	0	8	87	8	9	8	9	88
86	8	5	8	33	8	39	8	35	8	34	8	87	8	88	8	87	8	8	8	9	88

8. Describe the shape of the data in the dot plot above.

## 9 – 10 Use the table below.

Soda Cans Collected by Ms. Sepe's Class									
Ava	0	Lois	20	Virginia	20				
Barbara	80	Marc	20	Wendy	20				
Charlie	10	Nancy	10	Zoe	30				
Dawn	10	Olivia	0	Cort	10				
Eric	10	Pauline	10	Andrew	10				
Falynn	70	Quinn	80	Sean	20				
George	0	Ross	20	Karen	30				
Hayley	20	Sara	20	Jim	20				
Ira	20	Teddy	10	Stephen	20				
Jordan	60	Uri	60	Danielle	50				

9. Construct a dot plot for the data.



10. Describe the shape of the data.

11. The scores on a test in Algebra class are graphed on the histogram below.



How would you describe the distribution of scores on the test?

12. The data was graphed again using intervals of 25. The graph is at right. How is the interpretation of the information lost by selecting wider intervals?

