

Name: \_\_\_\_\_  
Math 620 –Types of Distributions: Homework

Date: \_\_\_\_\_

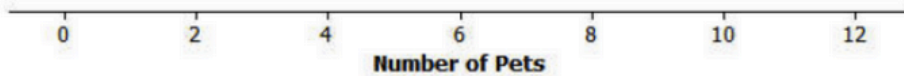
**Example 1**

*Data Set 1: Pet owners*

Students from River City High School were randomly selected and asked, “How many pets do you currently own?” The results are recorded below:

0	0	0	0	1	1	1	1	1	1	1	1	1	1	2
2	2	2	3	3	4	5	5	6	6	7	8	9	10	12

Make dot plot of the data set.



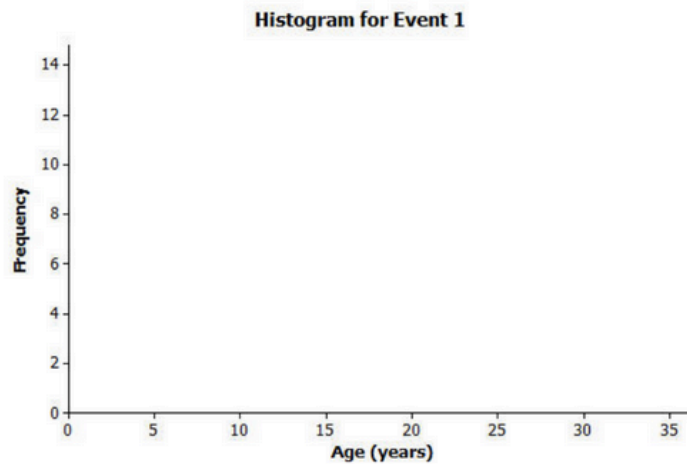
- a) Describe the distribution of the number of pets owned by students at River City HS.
- b) Calculate the mean number of pets owned by the 30 students from River City High School. Calculate the median number of pets owned by the thirty students.
- c) What do you think is a typical number of pets for students from River City High School? Explain how you made your estimate.

**Example 2 - Histograms:** A graph of data that groups the data based on intervals and represents the data in each interval by a bar.

Twenty-five people were attending an event. The ages of the people are indicated below:

3, 3, 4, 4, 4, 4, 5, 6, 6, 6, 6, 6, 6, 6, 7, 7, 7, 7, 7, 7, 16, 17, 22, 22, 25

a. Create a histogram of the ages using the provided axes.



b. Would you describe your graph as symmetrical or skewed? Explain your choice.

c. Identify a typical age of the twenty-five people.

d. What event do you think the twenty-five people were attending? Use your histogram to justify your conjecture.