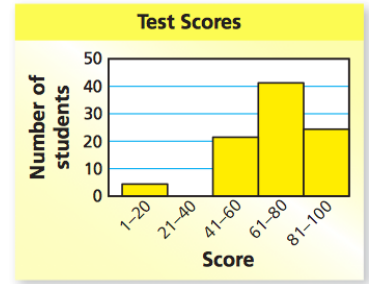
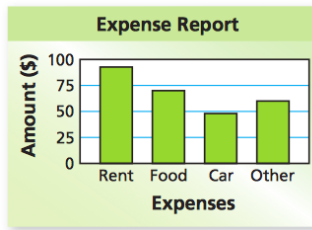


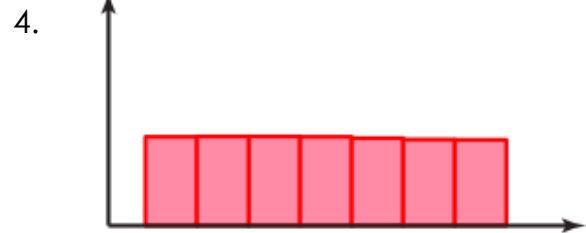
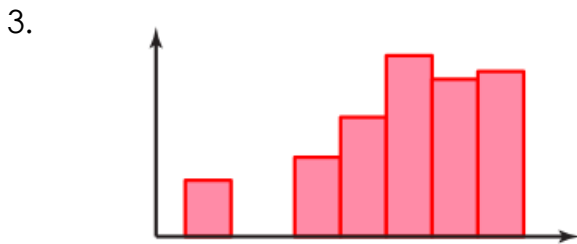
### 18.3 Histograms, dot plots, and more...

1. Which graph is a histogram? Explain your reasoning..



2. How can you tell when an interval of a histogram has a frequency of zero?

Determine if the histograms have any kind of skew.



Display the data in a Histogram.

5.

States Visited	
States	Frequency
1-5	12
6-10	14
11-15	6
16-20	3

6.

Chess Team	
Wins	Frequency
10-13	3
14-17	4
18-21	4
22-25	2

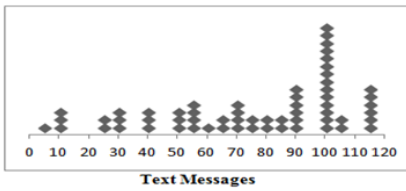
7.

Movies Watched	
Movies	Frequency
0-1	5
2-3	11
4-5	8
6-7	1

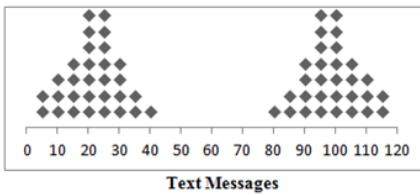
### 8. Task 1

Below are dot plots for three different data sets. Three students tracked the amount of text messages they sent each day for 20 or 60 days.

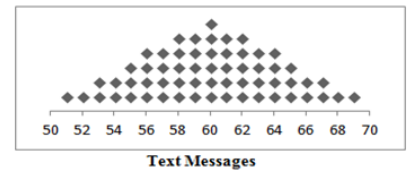
Weston



Saria



Juan

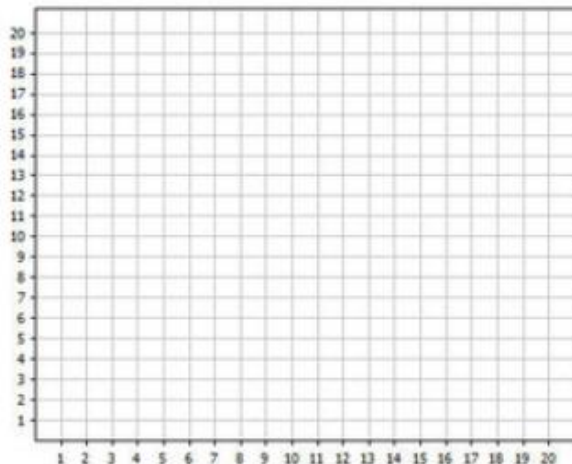


The standard deviations are also given. **Without calculating** the standard deviations, match each person with the most likely standard deviations.

Standard Deviation	Student's Name
4.18	
39.78	
31.36	

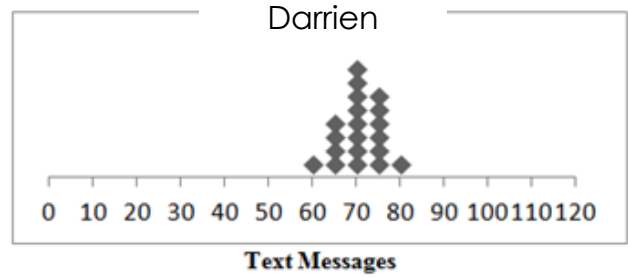
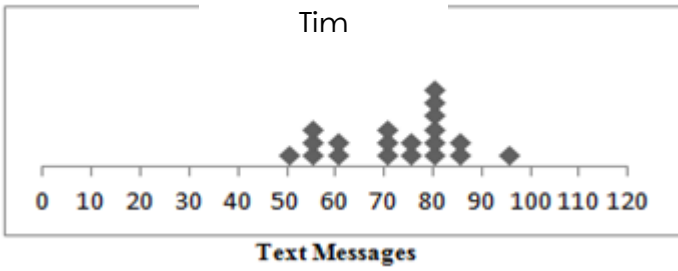
### 9. Task 2

Draw 4 rectangles for which the standard deviation of the 4 rectangle's heights is greater than the standard deviation of the rectangles widths.



10. **Task 3**

Which of the dot plots below represents the data distribution with the greater standard deviation? Explain your choice.



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11. **Task 4**

Example 1: 5, 10, 15, 20, 25

Example 2: 13, 14, 15, 16, 17

Find the mean of example 1.

Find the mean of example 2.

Which will have the smaller standard deviation? Why?

Now you try! Write two sets of 5 different numbers that have the same mean but different standard deviations.

Bonuse: Write two sets of 5 different numbers that have the same standard deviations but different means.