

Spoon Frog Activity Class Data Graphs

	Attempts	Time(Sec)
Chris	8	57
Sarah	9	49
Aidan	16	116
Kayla	5	21
Sasha	1	5
Farrelle	10	101
Skylar	15	94

	Attempts	Time(Sec)
Peyton	10	84
Hannah	11	76
Alyssa	2	8
Matt	3	17
Delaney	4	28
Kyle	4	20
Ethan	10	86

	Attempts	Time(Sec)
Serafina	3	16
Maria	2	9
Mollie	2	6
Natassia	1	3
James	17	115
Devlin	9	73

Mean, Median, Mode Range

Number of Attempts

Time (Seconds)

Mean:

Mean:

Median:

Median:

Mode:

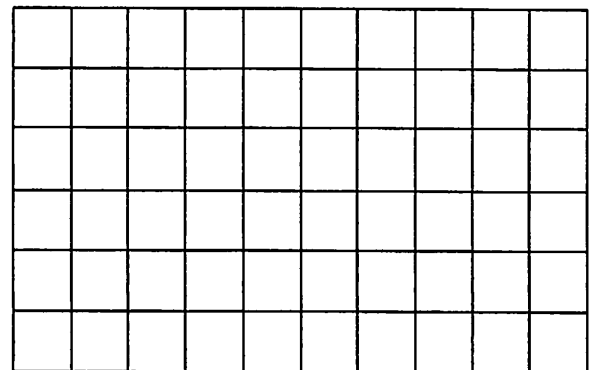
Mode:

Range:

Range:

Scatter Plot

Time (Seconds)

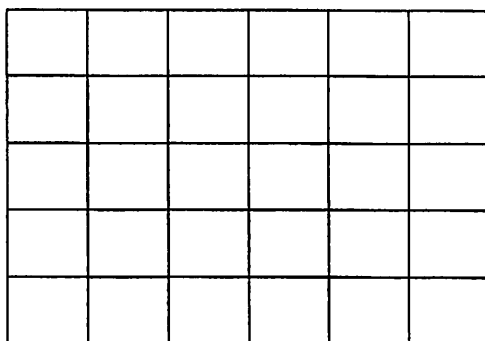


Number of Attempts

Frequency Histogram

Attempts Intervals	Tally	Frequency
1-4		
5-8		
9-12		
13-16		
17-20		

Frequency

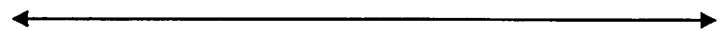


Attempts Intervals

Box and Whisker Plot

Create a box and whisker plot based on the **number of attempts** it took the students in the class.

Range: MIN:
Q1:
 IQR: MED:
Q3:
MAX:



Create a box and whisker plot based on the **time** it took the students in the class.

Range: MIN:
Q1:
 IQR: MED:
Q3:
MAX:



Work Area:

Attempts:

1, 1, 2, 2, 2, 3, 3, 4, 4, 5, 8, 9, 9, 10, 10, 10, 11, 15, 16, 17

Time:

3, 5, 6, 8, 9, 16, 17, 20, 21, 28, 49, 57, 73, 76, 84, 86, 94, 101, 115, 116

Questions to Consider:

Mean, Median, Mode and Range:

1. If we allowed the trials to continue past 20 there may have been some outliers in our data. How would the outliers affect the mean, median, mode and range?

Mean: _____

Median: _____

Mode: _____

Range: _____

Scatter Plot:

2. Describe the correlation of the data: _____

3. Describe the relationship, if any, between the number of attempts and the time.

Histogram:

4. How would you describe the distribution of the data for the number of attempts?

Cluster: _____

Gaps: _____

Box-and-Whisker Plot:

5. Which 25%-interval did your time fall between?

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Devlin	9	73

Mean, Median, Mode Range

Number of Attempts

Time (Seconds)

Mean:

$$142 \div 20 = 7.1$$

Mean:

$$984 \div 20 = 49.2$$

Median:

6.5

Median:

38.5

Mode:

2 and 10

Mode:

No Mode

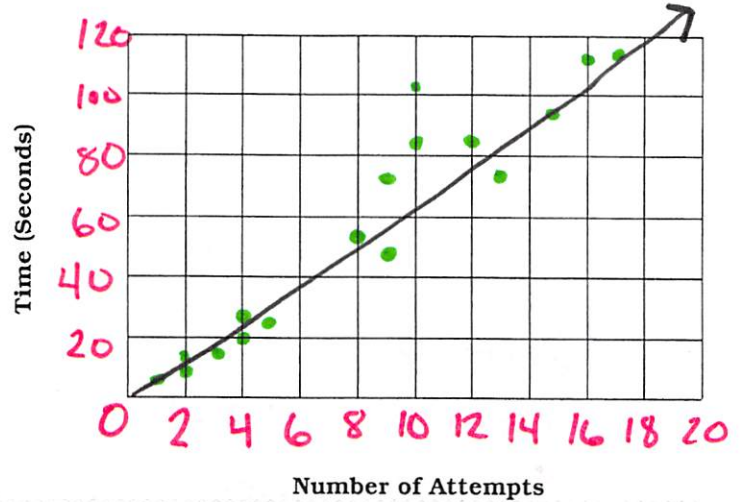
Range:

$$17 - 1 = 16$$

Range:

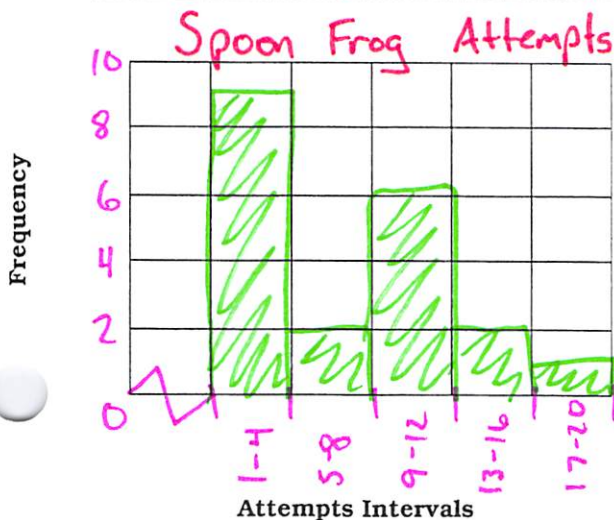
$$116 - 3 = 113$$

Scatter Plot



Frequency Histogram

Attempts Intervals	Tally	Frequency
1-4		9
5-8		2
9-12		6
13-16		2
17-20		1



Box and Whisker Plot

Create a box and whisker plot based on the **number of attempts** it took the students in the class.

Range: 16

MIN: 1

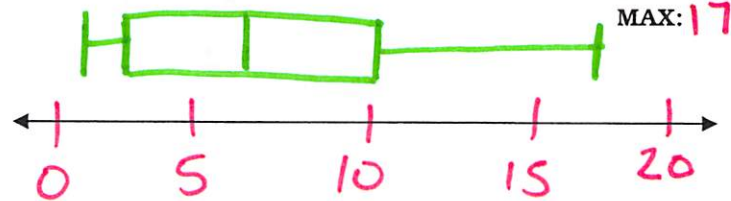
Q1: 2.5

IQR: $10 - 2.5 = 7.5$

MED: 6.5

Q3: 10

MAX: 17



Create a box and whisker plot based on the **time** it took the students in the class.

Range: 113

MIN: 3

Q1: 12.5

IQR:

MED: 38.5

Q3: 85

MAX: 116



Work Area:

Attempts:

1, 1, 2, 2, 2, | 3, 3, 4, 4, 5, | 8, 9, 9, 10, 10, | 10, 11, 15, 16, 17

Time:

3, 5, 6, 8, 9, | 16, 17, 20, 21, 28, | 49, 57, 73, 76, 84, | 86, 94, 101, 115, 116

Questions to Consider:

Mean, Median, Mode and Range:

1. If we allowed the trials to continue past 20 there may have been some outliers in our data. How would the outliers affect the mean, median, mode and range?

Mean: Increase

Median: Increase Slightly

Mode: Stay the Same

Range: Increase

Scatter Plot:

2. Describe the correlation of the data: Positive

3. Describe the relationship, if any, between the number of attempts and the time.

As the number of attempts increased, the time increased

Histogram:

4. How would you describe the distribution of the data for the number of attempts?

Cluster: Between 1-4 and 9-12

Gaps: Between 5-8

Box-and-Whisker Plot:

5. Which 25%-interval did your time fall between?
