

Spoon Frog Activity Class Data Graphs

	Attempts	Time(Sec)
Mr. Falci	4	14
David	6	46
Jake	1	2
Preston	20	127
Sophia	2	7
Ka'Daisja	5	24
Belis	3	13

	Attempts	Time(Sec)
Jayden	1	5
Joey	2	10
Kylie	1	4
Bella	2	10
Tom	2	9
Chase	1	5
Sebastian	15	75

	Attempts	Time(Sec)
Hadja	20	124
Lily	20	125
Alexis	8	46
Canyon	4	16
Jimmy	1	4
Aissatou	10	48

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, 1, 1, 1, 2, 2, 2, 2, 3, 4, 4, 5, 6, 8, 10, 15, 20, 20, 20

Time:

2, 4, 4, 5, 5, 7, 9, 10, 10, 13, 14, 16, 24, 46, 46, 48, 75, 124, 125, 127

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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Aissatou	10	48

Mean, Median, Mode Range

Number of Attempts

Time (Seconds)

Mean:

$$128 \div 20 = 6.4$$

Mean:

$$714 \div 20 = 35.7$$

Median:

3.5

Median:

13.5

Mode:

1

Mode:

4, 5, 10, 46

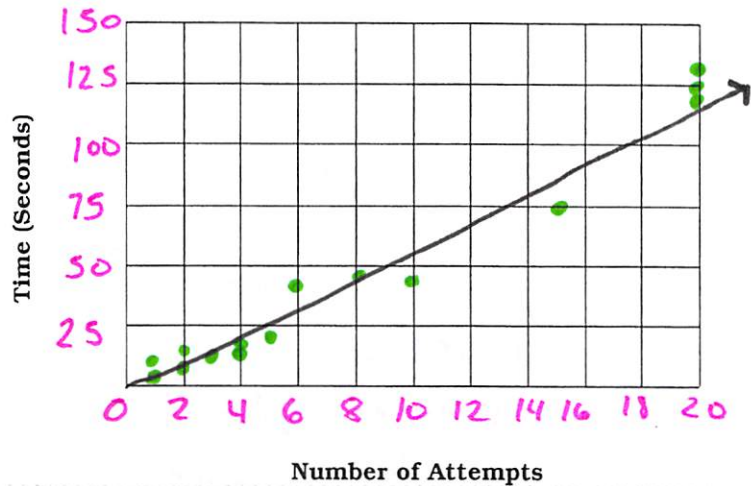
Range:

$$20 - 1 = 19$$

Range:

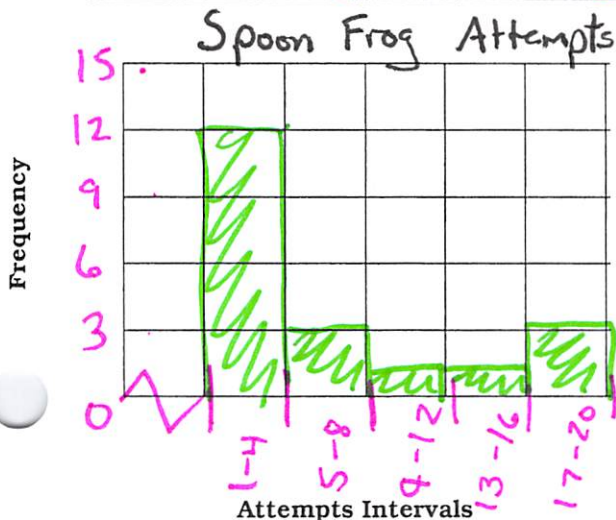
$$127 - 2 = 125$$

Scatter Plot



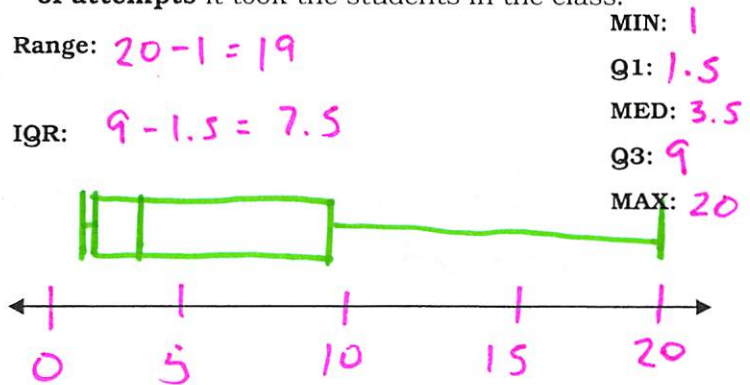
Frequency Histogram

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

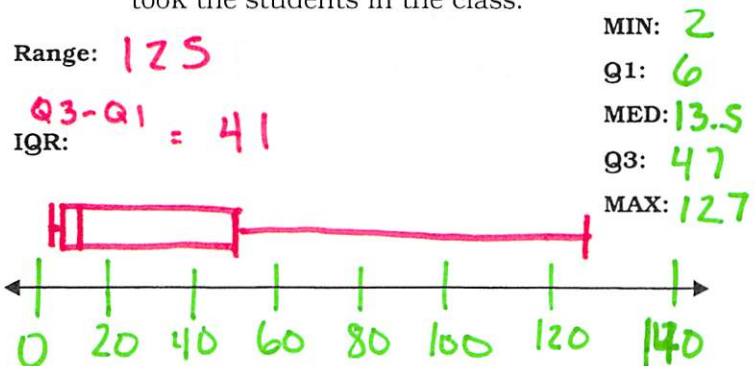


Box and Whisker Plot

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



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



Work Area:

Attempts:

1, 1, 1, 1, 1, 2, 2, 2, 2, 3, 4, 4, 5, 6, 8, 10, 15, 20, 20, 20

Time:

2, 4, 4, 5, 5, 7, 9, 10, 10, 13, 14, 16, 24, 46, 46, 48, 75, 124, 125, 127

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

Gaps: Between 9-16

Box-and-Whisker Plot:

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