Spoon Frog Activity Class Data Graphs

	Attempts	Time(Sec)
Maherjuhane	1	1
Hailee	6	49
Murtaza	5	25
Damani	20	142
Qudus	17	127
Amelia	13	91
Brooke	5	26
Josh	1	1

	Attempts	Time(Sec)
Nick	3	30
Maddy	3	22
Aniyah	3	22
Sam	5	32
Emma	1	1
Alexa	1	1
Cartier	1	1
Jon	8	55

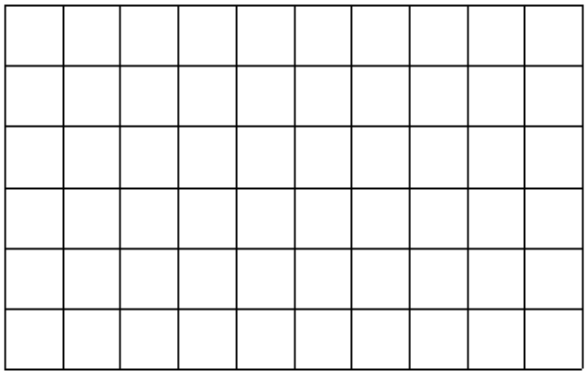
	Attempts	Time(Sec)
Hanna	1	1
Faith	2	6
Claudia	2	12
Brigid	1	2
Michael	12	51
Spencer	5	22
Mr. Falci	2	7
Ms. Dodson	9	38

Mean, Median, Mode Range

Number of Attempts	Time (Seconds)
Mean:	**Mean:**
Median:	**Median:**
Mode:	**Mode:**
Range:	**Range:**

Scatter Plot

Time (Seconds)

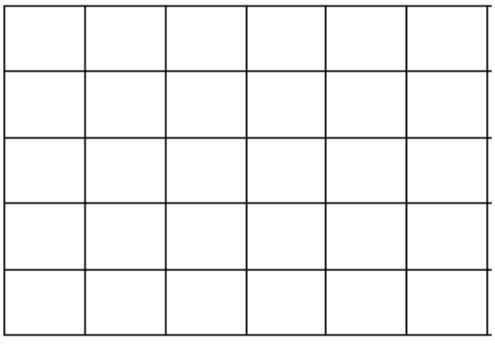


Number of Attempts

Frequency Histogram

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

Frequency



Attempts Intervals

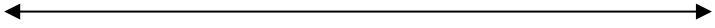
Box and Whisker Plot

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

Range:

IQR:

MIN:
Q1:
MED:
Q3:
MAX:

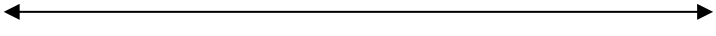


Create a box and whisker plot based on the **time** it took the students in the class.

Range:

IQR:

MIN:
Q1:
MED:
Q3:
MAX:



Work Area:

Attempts:

1, 1, 1, 1, 1, 1, 1, 2, 2, 2, 3, 3, 3, 5, 5, 5, 5, 6, 8, 9, 12, 13, 17, 20

Time:

1, 1, 1, 1, 1, 1, 2, 6, 7, 12, 22, 22, 22, 25, 26, 30, 32, 38, 49, 51, 55, 91, 127, 142

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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Jaherjuhane	1	1
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Amelia	13	91
Brooke	5	26
Josh	1	1

	Attempts	Time(Sec)
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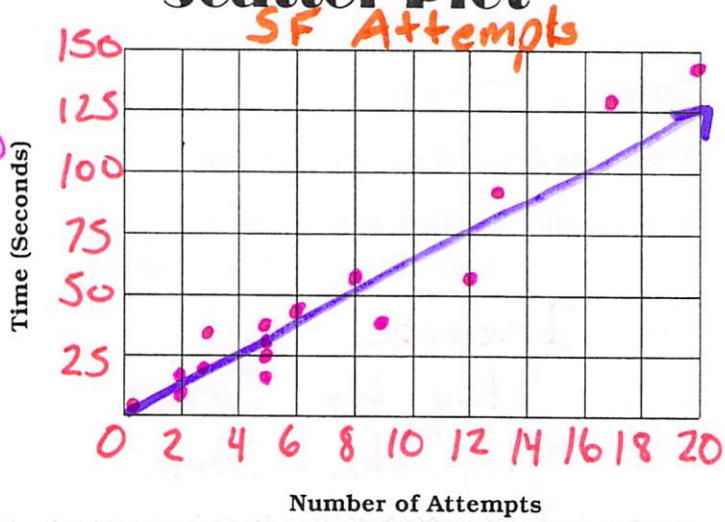
Aniyah	3	22
Sam	5	32
Emma	1	1
Alexa	1	1
Cartier	1	1
Jon	8	55

	Attempts	Time(Sec)
Hanna	1	1
Faith	2	6
Claudia	2	12
Brigid	1	2
Michael	12	51
Spencer	5	22
Mr. Falci	2	7
Ms. Dodson	9	38

Mean, Median, Mode Range

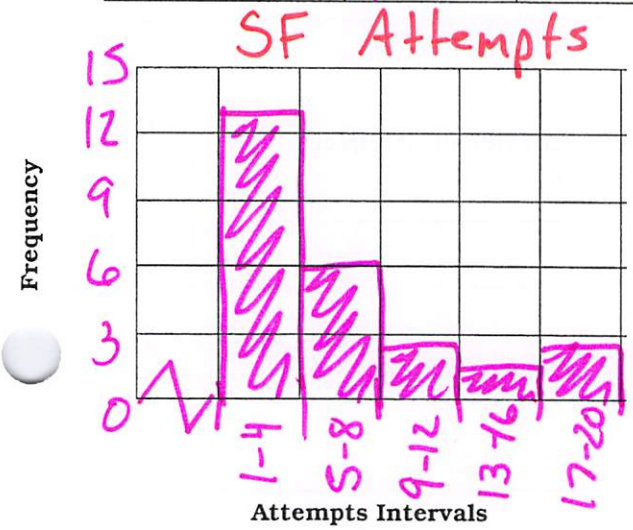
Number of Attempts	Time (Seconds)
Mean: 127 ÷ 24 = 5.3	**Mean:** 743 ÷ 24 = 40.0
Median: 3	**Median:** 22
Mode: 1	**Mode:** 1
Range: 19	**Range:** 141

Scatter Plot



Frequency Histogram

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



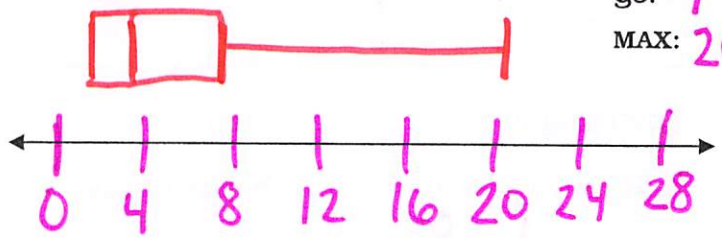
Box and Whisker Plot

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

Range: 19

IQR: 6

MIN: 1
Q1: 1
MED: 3
Q3: 7
MAX: 20

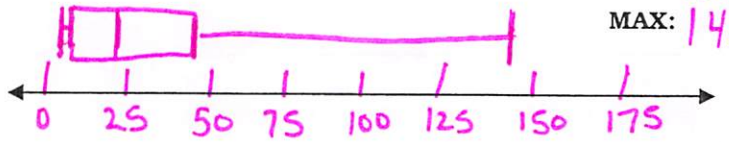


Create a box and whisker plot based on the **time** it took the students in the class.

Range: 141

IQR: 42

MIN: 1
Q1: 1.5
MED: 22
Q3: 43.5
MAX: 142



Work Area:

Attempts:

1, 1, 1, 1, 1, 1, | 1, 2, 2, 2, 3, 3, | 3, 5, 5, 5, 5, 6, | 8, 9, 12, 13, 17, 20

Time:

1, 1, 1, 1, 1, 1, | 2, 6, 7, 12, 22, 22, | 22, 25, 26, 30, 32, 38, | 49, 51, 55, 91, 127, 142

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: Stay the Same

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 attempts increased the time increased

Histogram:

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

Cluster: 1-8

Gaps: No Gaps

Box-and-Whisker Plot:

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