Module 9 Review

The table below contains high temperatures measured in the month of May in Sullivan, Illinois. Use the date to find the following:

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| $$78°$$ | $$55°$$ | 91$°$ | 83$°$ | 61$°$ | 72$°$ | 81$°$ | 78$°$ | 83$°$ | 77$°$ | 86$°$ | 71$°$ | 68$°$ | 75$°$ | 32$°$ | 59$°$ | 54$°$ | 63$°$ |

1. Mean \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 8. Minimum \_\_\_\_\_\_\_\_\_\_\_\_\_

2. Median \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 9. Interquartile Range \_\_\_\_\_\_\_\_\_\_\_

3. Mode \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 10. Range \_\_\_\_\_\_\_\_\_\_\_\_

4. Quartile 3\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 11. Standard Deviation \_\_\_\_\_\_\_

5. Quartile 1 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 12. Maximum \_\_\_\_\_\_\_\_\_\_

6. What is the best measure of center? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

7. What is the best measure of spread? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Use the table below about the Quiz grades and then complete problems 1-4.

|  |  |  |
| --- | --- | --- |
| Student | Quiz 1 | Quiz 2 |
| Tim | 88 | 76 |
| Jamal | 67 | 91 |
| Sam | 76 | 92 |
| Tom | 88 | 88 |
| Billy | 75 | 76 |
| Nathan | 65 | 88 |
| Bob | 92 | 89 |
| Noah | 87 | 86 |
| Jake | 68 | 79 |
| Eric | 87 | 90 |

|  |  |
| --- | --- |
| $$\overbar{x}$$ | **σ** |
|  |  |

1. Find the mean and standard deviation for Quiz 1.

|  |  |
| --- | --- |
| $$\overbar{x}$$ | **σ** |
|  |  |

1. Find the mean and standard deviation for Quiz 2.
2. Complete the five number summary for Quiz 1.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Min | Q1 | Med | Q3 | Max |
|  |  |  |  |  |

1. Complete the five number summary for Quiz 2.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Min | Q1 | Med | Q3 | Max |
|  |  |  |  |  |

1. Are there any outliers for either Quiz 1 or Quiz 2? If so state the outlier and which Quiz it is in.
2. Is either team more consistent? Explain your reasoning using complete sentences.

Given this table of data answer the following questions.



1. What is its line of best fit?
2. What is its correlation coefficient (r value)?
3. Is it a good or bad fit?
4. Describe the slope in context.
5. Describe the y-int in context
6. Estimate how many calories would be in a sandwich with 18 grams of fat.

Match the following scatter plots to their correlation coefficients.





1. -1
2. 0.6
3. 0
4. 0.5
5. -0.1

Multiple Choice Practice:



