Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Use this data to answer questions #1-8. These are the numbers of cups stacked in 2 minutes.

19, 23, 25, 27, 29, 32, 33, 34, 34, 38, 45, 47, 48, 50, 53, 61, 85

1. Write the 5 number summary for the cups.

Min \_\_\_\_\_ Q1 \_\_\_\_\_ Median \_\_\_\_\_ Q3 \_\_\_\_\_ Max \_\_\_\_\_

1. Calculate the IQR.
2. What was the mean number of cups? (round to nearest whole number)
3. What was the mode?
4. What was the range of cups?
5. Create a stem and leaf plot for the data.

(Be sure the label the plot and identify the key.)

Title: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| --- | --- | --- | --- | --- | --- | --- |
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Key: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Identify the outlier.
2. Calculate the standard deviation for the data set.

|  |  |  |
| --- | --- | --- |
| Number | Difference from the mean(whole number) | (difference from mean)2 |
| 1 |  |  |
| 2 |  |  |
| 3 |  |  |
| 4 |  |  |
| 5 |  |  |
| 6 |  |  |
| 7 |  |  |
| 8 |  |  |
| 9 |  |  |
| 10 |  |  |
| 11 |  |  |
| 12 |  |  |
| 13 |  |  |
| 14 |  |  |
| 15 |  |  |
| 16 |  |  |
| 17 |  |  |

Total: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

N = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ N – 1 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Total ÷ (N – 1) = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Standard Deviation = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

9) A spinner has 8 sections labeled A, A, B, C, C, D, E, E.

a) What is the probability of spinning B?

b) What is the probability of spinning A and then D?

10) There are 5 diet sodas, 10 colas, 8 iced teas, 6 orange sodas, and 1 ginger ale under the

ice in a cooler. What is the probability of getting an orange soda(keeping it) and then an

iced tea?

11) The graduation committee wants to find out what flowers the seniors want at graduation.

Which choice best represents a sample?

A. The first twenty students to answer a survey.

B. The seniors who eat on B lunch.

C. All of the seniors.