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12-2 Skills Practice Statistics and Parameters

Identify the sample and the population for each situation. Then describe the sample statistic and the population parameter.

1. A restaurant randomly selects 10 patrons on Saturday night. The mean amount spent on beverages is then calculated for the sample.

. Sample: 10 patrons

• Sample Statistic: near of 10 privas

· Population: Entire restaurant

• Population Parameter: near of

extere restourant

2. A veterinarian randomly selects 3 kittens from a litter. The mean weight of the 3 kittens is calculated.

• Sample:

3 Kittens

• Sample Statistic:

mean of 3 Kitters

Population:

The litter

• Population Parameter:

man of the litter

3. A produce clerk randomly selects 20 bags of apples from a shipment and counts the total number of apples in each bag. The mean number of apples is calculated for the sample.

• Sample:

Total A of gyler in the 20 begs

• Sample Statistic:

men of e

• Population:

The entire shipment

• Population Parameter:

mean of E

Find and interpret the mean absolute deviation.

4. A researcher counts the number of river otters observed on each acre of land in a state park:

 $\{0, 10, 14, 6, 0, 8, 4\}.$ $\overline{\chi} = 6$

abs $(L_1 - \overline{x})$

MAD X = 4

5. A fisherman records the weight of each black bass he catches during a fishing trip: {12, 7, 8, 13, 6, 14}.

Find and interpret the standard deviation of each set of data.

$$\bar{\chi} = 9$$
 $\sigma = 1.67$

7. {6, 8, 2, 3, 2, 9}

0-5

Data is close

Date is spiral est

8. {23, 18, 28, 36, 15}

9. {44, 35, 40, 37, 43, 38, 40}

10. A city councilor wants to know how much revenue the city would earn by installing parking meters on Main Street. He counts the number of cars parked on Main Street each weekday: {64, 79, 81, 53, 63}. Find and interpret the standard deviation.

Because the Std dev is small, the data is close, so the mean of 68 is a good representation of cars ported.