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BSCPE 2A

Jaguar Mean:

$$M = \frac{(\text{summation of the data of jaguar})}{\text{No. of Lots}}$$

$$M = \frac{32,634}{30}$$

$$M = 1,087.8$$

Jaguar Standard Deviation (SD):

$$SD = \sqrt{\text{Variance}}$$

$$SD = (80,749.82)$$

$$SD = 284.17$$

Jaguar Median:

$$\text{Median} = \frac{(15th + 16th)}{2}$$

$$\text{Median} = \frac{(999 + 997)}{2}$$

$$\text{Median} = 998.0$$

Jaguar Coefficient of Variation (CV):

$$CV = SD / M$$

$$CV = 284.17 / 1,087.8$$

$$CV = 0.26$$

Jaguar Mode:

Lot No. 1 and 27 has the same

Value = 997

Jaguar Range:

Range = Highest Data – Lowest Data

$$\text{Range} = 1840 - 790$$

$$\text{Range} = 1050$$

Jaguar Variance:

$$\text{Variance} = \frac{\sum_{i=1}^n (X_i - \text{Highest Lot No.})^2}{(\text{Highest Lot No.} - 1)}$$

where **X_i** is the data of each Lot No.

$$\text{Variance} = \frac{(2,341,744.8)}{29}$$

$$\text{Variance} = 80,749.82$$

Panther Mean:

$$M = \frac{(\text{summation of the data of jaguar})}{\text{No. of Lots}}$$

$$M = \frac{30,160}{30}$$

$$M = 1,005.3$$

Panther Standard Deviation (SD):

$$SD = \sqrt{\text{Variance}}$$

$$SD = \sqrt{27,642.85}$$

$$SD = 166.26$$

Panther Median:

$$\text{Median} = \frac{(15\text{th} + 16\text{th})}{2}$$

$$\text{Median} = \frac{(999 + 990)}{2}$$

$$\text{Median} = 994.5$$

Panther Coefficient of Variation (CV):

$$CV = SD / M$$

$$CV = 166.26 / 1005.3$$

$$CV = 0.17$$

Panther Mode:

Lot No. 10 and 15 has the same

Value = 1026

Panther Range:

Range = Highest Data – Lowest Data

Range = 1710 - 590

Range = 1120

Panther Variance:

$$\text{Variance} = \frac{\sum_{i=1}^n (X_i - \text{Highest Lot No.})^2}{(\text{Highest Lot No.} - 1)}$$

where **X_i** is the data of each Lot No.

$$\text{Variance} = \frac{(2,341,744.8)}{29}$$

$$\text{Variance} = 27,642.85$$