Activity - 5

A Calculate mean, median, mode, variance, standard deviation, skewness, Kurtosis on data set 3,7,7,19,24,24,24,25,28,30.

 $mean = \frac{3+7+7+19+24+24+25+28+30}{10}$

mean = 1911

median = 24

mode = 24 + 24 = 7

variance = $\frac{1}{n} \leq \frac{n}{(\pi^2)^2 - \pi}$

 $= \frac{1}{10} \left((3-19\cdot1)^{2} + (7-19\cdot1)^{2} + (7-19\cdot1)^{2} + (19-19\cdot1)^{2} + (24-19\cdot1)^{2} + (24-19\cdot1)^{2} + (24-19\cdot1)^{2} + (25-19\cdot1)^{2} + ($

standard deviation

J = V (5.69

J z 9.256

$$sk_{i\omega n cis} = \frac{n}{(n-1)(n-2)} \sum_{i=1}^{2} \left[\frac{(n_i - \mu)}{s} \right]^3$$

$$= \frac{10}{(10-1)(10-2)} \stackrel{10}{\leq} \left[\frac{(n:-19\cdot1)}{9\cdot256} \right]^{3}$$

$$\frac{n(n+1)}{(n-1)(n-2)(n-3)} \stackrel{?}{\underset{i=1}{\sum}} \left(\frac{n(i-\mu)}{s} \right)^{\frac{1}{2}}$$

$$-3(n-1)^{2}$$

$$-(n-2)(n-3)$$

$$\frac{1}{(1-1)(10)(10+1)} = \frac{10}{(10+1)(10-2)(10-3)} = \frac{10}{1-10} = \frac{10}{(10+1)(10-2)(10-3)} = \frac{10}{1-10} = \frac{10}{(10+1)(10-2)(10-3)} = \frac{10}{(10+1)(10-2)(10-2)(10-3)} = \frac{10}{(10+1)(10-2)(10-2)(10-2)} = \frac{10}{(10+1)(10-2)(10-2)(10-2)} = \frac{10}{(10+1)(10-2)(10-2)(10-2)} = \frac{10}{(10+1)(10-2)(10-2)} = \frac{10}{(1$$

$$-\frac{3(10-1)^{2}}{(10-2)(10-3)}$$