

Q1. Consider the following data as representing the population of cars sold in each of 8 weeks

3 5 2 7 7 7 9 0

Find the population standard deviation

Q2. Consider the following sample data:

25 11 6 4 2 17 9 6

Find the median

Q3. The following data reflect the number of customers who test drove new cars each day for a sample of 20 days.

5	7	2	9	4
9	7	10	4	7
5	6	4	0	7
6	3	4	14	6

Find the inter-quartile range

Q4. A company has two assembly lines. Line A produces an average of 335 units per day with a standard deviation equal to 11 units. Line B produces an average of 145 units per day with a standard deviation equal to 8 units. Based on this information, which line is relatively more consistent? (Line A , Line B)

Q5. At a recent meeting, the production manager at Harris Manufacturing stated that the coefficient of variation for units produced daily at her plant was 55 percent. She also stated that the mean production volume was 11,200 units per day. Based on this information, the standard deviation of production volume is approximately 6,160 units.
(**True , False**)

Q6. A small company has 7 employees. The numbers of years these employees have worked for this company are shown as follows:

4 14 3 16 9 8 16

Find the median number of years that employees have been with this company

Q7. The distribution of actual weight of potato chips in a 16 ounce sack is thought to be bell-shaped with a mean equal to 16 ounces and a standard deviation equal to 0.45 ounces. Based on this, between what two limits could we expect 95 percent of all sacks to weigh?

Q8. In the annual report, a major food chain stated that the distribution of daily sales at their Detroit stores is known to be bell-shaped, and that 95 percent of all daily sales fell between \$19,200 and \$36,400. Based on this information, what were the mean sales?