

1. Given a random variable X follows a Normal distribution with mean 10 and standard deviation 0.6827

2. Scores on a certain exam are normally distributed with a mean of 90 and a variance of 25. 99.8

3. A normal distribution is defined by two parameters, the mean and the Standard Deviation

4. If for a certain x value in a normal distribution with mean equal to 4 the z-value is such that Larger than 4

5. Suppose X is normally distributed with mean 50 and standard deviation 4. Find the probability 0.9876

6. Suppose X is normally distributed with mean 20 and standard deviation 4, find the value x0 12.16

7. According to an NRF survey conducted by BIGresearch, the average family spends about \$23 They spend less than \$145 on back-to-college electronics?

They spend more than \$340 on back-to-college electronics?

They spend between \$135 and \$175 on back-to-college electronics?

8. According to the Air Transport Association of America, the average operating cost of an MD At what operating cost would only 20% of the operating costs be less?

At what operating cost would 65% of the operating costs be more?

What operating cost would be more than 85% of operating costs?

9. In a recent year, the average daily circulation of the Wall Street Journal was 2,276,207. Suppose On what percentage of days would circulation pass 1,790,000?

$P(x > 1,790,000)$ 1

Suppose the paper cannot support the fixed expenses of a full-production setup if the $P(x < 1,632,000)$ 0

10. Selection of the samples based on the convenience of the researcher is an example of nonrandom sampling

11. Judgment sampling is an example of _ nonrandom sampling