

Homework for YouTube video 4-24-20

From AP Classroom

Based on records kept at a gas station, the distribution of gallons of gas purchased by customers is skewed to the right with mean 10 gallons and standard deviation 4 gallons. A random sample of 64 customer receipts was selected, and the sample mean number of gallons was recorded. Suppose the process of selecting a random sample of 64 receipts and recording the sample mean number of gallons was repeated for a total of 100 samples. Which of the following is the best description of a dotplot created from the 100 sample means?

- A** The dotplot is skewed to the right with mean 10 gallons and standard deviation 4 gallons.
- B** The dotplot is skewed to the right with mean 10 gallons and standard deviation 0.5 gallon.
- C** The dotplot is skewed to the right with mean 10 gallons and standard deviation 0.4 gallon.
- D** The dotplot is approximately normal with mean 10 gallons and standard deviation 0.5 gallon.
- E** The dotplot is approximately normal with mean 10 gallons and standard deviation 0.4 gallon.