

Name: \_\_\_\_\_

### Sampling Distributions

#### Multiple Choice

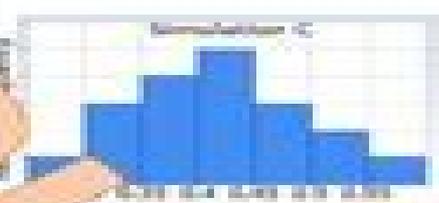
1. The mean and standard deviation of a sample set of data are 20 and 3, respectively. The following table shows the relative frequencies of the data in the given intervals.

Interval	Relative Frequency
$13 < x < 14$	0.20
$14 < x < 17$	0.30
$17 < x < 20$	0.30
$20 < x < 23$	0.20
$23 < x < 26$	0.10
$26 < x < 29$	0.20

Based on the table above, which is the most appropriate to use the normal model to approximate the population distribution?

- No, because the values do not have the center of the distribution.
- No, because the relative frequencies does not indicate a bell shape.
- No, because the mean and standard deviation parameters are not known.
- Yes, because the sum of the relative frequencies is 1.00.
- Yes, because the distribution of relative frequencies indicates a symmetric distribution.

2. The city of Greenville reports the proportion of residents that who vote in the mayoral elections as 0.4. Three simulations were designed to create a sampling distribution of a sample proportion from a population with proportion 0.4. Each simulation consisted of 2,500 trials. For each trial in a simulation, a sample size of  $n$  was collected at random, and the sample proportion was recorded. The mean of  $\hat{p}$  and among the simulations. The three histograms below summarize the results of the simulation.



Which of the following lists the simulations in order from the least sample size to the greatest sample size of  $n$ ?

- Simulation A, simulation B, simulation C
- Simulation A, simulation C, simulation B
- Simulation B, simulation A, simulation C
- Simulation B, simulation C, simulation A
- Simulation C, simulation A, simulation B

3. A certain statistic,  $\hat{\theta}$ , is being used to estimate a population parameter,  $\theta$ . Which property should  $\hat{\theta}$  exhibit in order for you to claim that  $\hat{\theta}$  is an unbiased estimator?

- The sampling distribution of  $\hat{\theta}$  is normal.
- The sampling distribution of  $\hat{\theta}$  is binomial.
- The sampling distribution of  $\hat{\theta}$  is uniform.
- The expected value of  $\hat{\theta}$  is equal to  $\theta$ .
- The standard deviation of  $\hat{\theta}$  is decreased.

# Sampling Distribution Practice Problems Solutions Statistics

**Clifford Lane**



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