**Chapter 5 Point and interval estimates – MCQ Student**

1. A sample mean is a point estimate of the population mean
   1. True
   2. False

The correct answer is a.

Support comment:

1. Which one of the statements below is not true
   1. The mean of the sample means is an unbiased estimator
   2. The sample variances are a biased estimator
   3. The sample variances are equal to population variance

The correct answer is c.

Support comment:

1. Standard error of the sample means is calculated as
   1. The mean multiplied by the z-value
   2. The standard deviation divided by the square root of the number of observations
   3. The sample variance standardized by the sample mean

The correct answer is b.

Support comment:

1. The standard error estimates how “close” is the sample mean from the population mean
   1. True
   2. False

The correct answer is a.

Support comment:

1. Interval estimate for the population mean depends on the sample mean and z-value only
   1. True
   2. False

The correct answer is b.

Support comment: Interval estimate for the population mean depends on the sample mean the z-value and the standard error of the estimate

1. The sample size n is calculated as
   1. z2σ2/E2
   2. z2σ2/μ2
   3. μ2σ2/z2

The correct answer is a.

Support comment: