

What is a Sampling Distribution?

Parameter –

Statistic –

Population Distribution –

Sampling Distribution –

Unbiased estimator –

Biased estimator –

Variability –

Sample Proportions

Sampling distribution of \hat{p} –

Mean –

Standard Deviation –

Normal Approximation –

Sample Means

Sampling Distribution of \bar{x} –

Mean –

Standard Deviation –

Central Limit Theorem –

Normal Approximation –

Sampling Distributions

Distinguish between a parameter and a statistic; Use the sampling distribution of a statistic to evaluate a claim about a parameter; Distinguish among the distribution of a population, sample and statistic; Determine whether or not a statistic is an unbiased estimator of a population parameter; describe the relationship between sample size and the variability of a statistic.

7.1) 1, 2, 4, 5, 9, 13,
19, 21, 24

Find the mean and standard deviation of the sampling distribution of a sample proportion; determine if the sampling distribution is approximately normal; If appropriate use a Normal distribution to calculate probabilities.

7.2) 27, 29, 32, 35, 37,
39, 42, 45

Find the mean and standard deviation of the sampling distribution of a sample mean; Explain how the shape of the sampling distribution is affected by the shape of the population distribution and sample size; If appropriate use a Normal distribution to calculate probabilities.

7.3) 49, 51, 52, 53,
56, 59, 62, 65,66

Spiral Review: Frappy
pg.134, T1.1, T3.11,
R5.4

Practice Test

Test

Cumulative AP Test
Pg.470) 1,2,4,7,10-
13,17,18,20,22,25