

AP Statistics – Chapter 9 Notes: Sampling Distributions

9.1 – Sampling Distributions

Parameter – a number that describes a population (usually unknown)

Statistics – a number that describes a sample (used to estimate a parameter)

Symbols used	Sample Statistic	Population Parameter
Proportions	\hat{p}	p
Means	\bar{x}	μ

Sampling Distribution – the distribution of all values taken by a statistic in all possible samples of the same size from the same population

A statistic is called an **unbiased estimator** of a parameter if the mean of its sampling distribution is equal to the parameter being estimated

Important Concepts for unbiased estimators

- The mean of a sampling distribution will always equal the mean of the population for any sample size
- The spread of a sampling distribution is affected by the sample size, *not the population size*. Specifically, larger sample sizes result in smaller spread.

9.2 – Sample Proportions

Choose an SRS of size n from a large population with population proportion p having some characteristic of interest.

Let \hat{p} be the proportion of the sample having that characteristic. Then the mean and standard deviation of the sampling distribution of \hat{p} are

$$\text{Mean: } \mu_{\hat{p}} = p$$

$$\text{Std. Dev.: } \sigma_{\hat{p}} = \sqrt{\frac{p(1-p)}{n}}$$

CONDITIONS FOR NORMALITY

Rule Of Thumb 1

Use the formula for the standard deviation of \hat{p} only when the size of the population is at least 10 times as large as the sample size.

Rule Of Thumb 2

We will use the normal approximation to the sampling distribution of \hat{p} for values of n and p that satisfy $np \geq 10$ and $n(1-p) \geq 10$.

9.3 – Sample Means

Suppose that \bar{x} is the mean of a sample from a large population with mean μ and standard deviation σ . Then the mean and standard deviation of the sampling distribution of \bar{x} are

$$\text{Mean: } \mu_{\bar{x}} = \mu$$

$$\text{Std. Dev.: } \sigma_{\bar{x}} = \frac{\sigma}{\sqrt{n}}$$

CONDITIONS FOR NORMALITY

If an SRS is drawn from a population that has the normal distribution with mean μ and standard deviation σ , then the sample mean \bar{x} will have the normal distribution $N(\mu, \sigma/\sqrt{n})$ for any sample size.

Central Limit Theorem

If an SRS is drawn from any population with mean μ and standard deviation σ , when n is large ($n \geq 30$), the sampling distribution of the sample mean \bar{x} will have the normal distribution $N(\mu, \sigma/\sqrt{n})$.

Ap Statistics Chapter 9 Homework Answers

M Walker



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web nov 2 2018 multiple choice questions can be written at a dok 3 or 4 level however to design a question in this format is difficult an item at dok level 3 or 4 requires complex reasoning strategic and extended thinking about the concepts of the content and a real world context and especially at a level 4 that requires research investigation and

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web sep 4 2014 dok levels are also not developmental all students including the youngest preschoolers are capable of strategic and extended thinking tasks what they look like will differ and what is level 3 to a kindergarten student may be a level 1 task for a middle schooler all students however should have opportunities to do complex reasoning

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web jan 13 2020 3 describe the 7 different types of quadrilaterals along with diagrams 4 discern the derivative of $f(x)$ 5 fill in the blanks with appropriate numbers x 2 3 dok level 3 connect the highlighted points and calculate the areas of all the triangles rectangles and squares that are possible

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web if there is a question regarding which of two levels a standard addresses such as level 1 level 2 or level 2 level 3 it is appropriate to assign the highest level as the dok ceiling for the task but also provide opportunities at the lower dok levels as an instructional progression e g summarizing a text dok 2 before

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