

AP Statistics Quiz A – Chapter 26 – Key

1. A biology professor reports that historically grades in her introductory biology course have been distributed as follows: 15% A's, 30% B's, 40% C's, 10% D's, and 5% F's. Grades in her most recent course were distributed as follows:

Grade	A	B	C	D	F
Frequency	89	121	78	25	12

- a. Test an appropriate hypothesis to decide if the professor's most recent grade distribution matches the historical distribution. Give statistical evidence to support your conclusion. We want to know if the most recent grade distribution matches the historical grade distribution.

H_0 : The most recent grade distribution matches the historical grade distribution.

H_a : The most recent grade distribution differs from the historical grade distribution.

Conditions:

*Counted data: We have the counts of the number of students who earned each grade.

*Randomization: We have a convenience sample of students, but no reason to suspect bias.

*Expected cell frequency: There are a total of 325 students. The smallest percentage of expected grades are F's, and we expect $325(0.05) = 16.25$. Since the smallest expected count exceeds 5, all expected counts will exceed 5, so the condition is satisfied.

Under these conditions, the sampling distribution of the test statistic is χ^2 with $5 - 1 = 4$ degrees of freedom, and we will perform a chi-square goodness-of-fit test.

Grade	A	B	C	D	F
Observed Frequency	89	121	78	25	12
Expected Frequency	48.75	97.5	130	32.5	16.25
χ^2 component	33.232	5.6641	20.8	1.7308	1.1115

$$\begin{aligned}\chi^2 &= \sum \frac{(Obs - Exp)^2}{Exp} \\ &= \frac{(89 - 48.75)^2}{48.75} + \frac{(121 - 97.5)^2}{97.5} + \frac{(78 - 130)^2}{130} + \frac{(25 - 32.5)^2}{32.5} + \frac{(12 - 16.25)^2}{16.25} \\ &= 62.538\end{aligned}$$

The P -value is the area in the upper tail of the χ^2 model with 4 degrees of freedom above the computed χ^2 value. $P\text{-value} = P(\chi^2 > 62.538) = 8.5 \times 10^{-13}$

The P -value is very small, so we reject the null hypothesis. There is strong evidence that the most recent grade distribution differs from the historical grade distribution.

- b. Which grade impacted your decision the most? Explain what this means in the context of the problem.

The χ^2 component for A's is the largest, 33.232. More students earned A's than we would have expected based on the historical grade distribution.

Ap Statistics Quiz B Chapter 26 Key

James A. O'Brien



Ap Statistics Quiz B Chapter 26 Key:

Ap Statistics Quiz B Chapter 26 Key Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Ap Statistics Quiz B Chapter 26 Key**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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