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

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

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*-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.

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Ap Statistics Quiz B Chapter 26 Key

Ian Pickup

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Mastering Psychology and Life Karl Alfred Minke,1979 *Introduction to Information Systems - Loose Leaf* George Marakas,James O'Brien,2012-01-19 *Single Case Research Methodology* Jennifer R. Ledford,David L. Gast,2018-01-19 Single Case Research Methodology 3rd Edition presents a thorough technically sound user friendly and comprehensive discussion of single case research methodology This book can serve as a detailed and complex reference tool for students researchers and practitioners who intend to conduct single case research design studies interpret findings of single case design studies or write proposals manuscripts or reviews of single case methodology research The authors present a variety of single case research studies with a wide range of participants including preschoolers K 12 students university students and adults in a variety of childcare school clinical and community settings making the book relevant across multiple disciplines in social educational and behavioral science including special and general education school child clinical and neuropsychology speech occupational recreation and physical therapy and social work **Resources in Education** ,1993-04 *The Practice of Statistics for AP* Daren Starnes,David S. Moore,Dan Yates,Josh Tabor,2014-03-01 The Practice of Statistics TPS is written specifically to address the College Board AP Statistics Course Description Now the overwhelming bestseller for the course returns in a spectacular new edition **Cumulated Index Medicus** ,2000 Macroeconomics Campbell R. McConnell,2002 McConnell Brue s Principles of Macroeconomics 15e is the best selling textbook and has been teaching students in a clear unbiased way for 40 years The 14th edition grew market share because of its clear and careful treatment of principles of macroeconomics concepts its balanced coverage and its patient explanations More students have learned their principles of Macroeconomics from McConnell Brue than any other text12 million of them The 15th edition is a substantial revision that delivers a tighter modern Internet savvy book *Insurance News Week* ,1963 **Wall Street Journal Index** ,1992 **Introduction to Information Systems** James A. O'Brien,2000 This work examines a five level framework that is used to describe the stages of information systems development It has been revised to reflect the movement towards enterprise wide business and looks at the major topics covered in a first course

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