

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

Roman Wölfel



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