

AP Statistics
Review- Probability Unit Test

Name: _____

Date: _____

First, get out your AP formula sheet and check out the formulas in the probability section.

The basics Suppose $P(A) = .35$, $P(B) = .6$ and $P(A \cap B) = .27$. Determine

a. .65 $P(A^c)$ (A^c represents the complement of A)

b. .68 $P(A \cup B) = P(A) + P(B) - P(A \cap B)$

c. .45 $P(A | B) = \frac{P(A \cap B)}{P(B)}$

d. No are A and B independent events? (yes or no)
 $P(A|B) \neq P(A)$

Example 1: Suppose the probability that a construction company will be awarded a certain contract is .25, the probability that it will be awarded second contract is .21, and the probability that it will get both contracts is .13. What is the probability that the company will win at least one of the two contracts?

$$P(1^{st} \text{ or } 2^{nd}) = .25 + .21 - .13 = .33$$

Example 2: A researcher interested in eye color versus success in a math program collected the following data from a random sample of 2000 high school students.

	brown	blue	
fail	190	10	200
pass	1710	90	1800
	1900	100	2000

a) What is the probability that a student from this group fails the math program?

$$\frac{200}{2000}$$

b) What is the probability that a student from this group fails the math program given that he/she has blue eyes?

$$\frac{10}{100}$$

c) Are blue eyes and failing the math program independent or dependent?

$$P(\text{fail} | \text{blue}) = \frac{10}{100} = \frac{1}{100}$$

$$P(\text{blue} | \text{fail}) = \frac{10}{200} = \frac{1}{200}$$

Example 3: Of the 60 obese teenagers in a recent study, 15 had type II diabetes, 20 had high blood pressure, and 10 had both high blood pressure and type II diabetes. Suppose one of these 60 obese teenagers is randomly selected

a) Given that the teenager has type II diabetes, what is the probability that he or she also has high blood pressure?

$$P(\text{HBP} | \text{II}) = \frac{P(\text{HBP} \cap \text{II})}{P(\text{II})} = \frac{10/60}{15/60} = \frac{2}{3}$$

b) If the obese teenager does NOT have high blood pressure, what is the probability that he or she also does not have type II diabetes?

$$P(\sim \text{II} | \sim \text{HBP}) = \frac{P(\sim \text{II} \cap \sim \text{HBP})}{P(\sim \text{HBP})} = \frac{35/60}{40/60} = \frac{7}{8}$$

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J Ma



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Aeronautical Engineering Review ,1953-07 *ILCA Bulletin No.21 - January 1985* International Livestock Centre for Africa, **Monthly Weather Review** ,1979 **Farmers' Review** ,1890 *Clark's Horse Review* ,1905 *Water and Gas Review* ,1915 Geophysical, Climatological and Anthropogenic Hazards and Disaster: Vulnerability, Risk Assessment, and Sustainability Shankar Karuppanan, Sandipan Das, Suresh Kumar, Uday Chatterjee, 2024-02-12 Nowadays the whole world faces frequent natural and anthropogenic hazards from drought to flood to deforestation which impends a large number of people into catastrophic destruction and damage Since natural hazards cannot be eliminated quantifying these events and creating reliable forecasts can alleviate their detrimental effects which can help build a more resilient and safe society This Research Topic will comply with the available knowledge of the multi hazards in response to monitoring and management and intends to fulfil the gap between science policy and the community concerned It also focuses on the use of precision techniques remote sensing and GIS technologies for the quantification of various natural and environmental hazards along with the capacity and sustainable mitigation strategies for resilient societies **Publications of the Geological Survey** Geological Survey (U.S.),1985 **Résumé du Catalogue des tremblements de terre signalés en Chine depuis 1767 av. J.-C. jusqu'en 1896 ap. J.-C.** Zi-ka-wei, China. Observatoire,1917 The New Schaff-Herzog Encyclopedia of Religious Knowledge Johann Jakob Herzog, Albert Hauck, Samuel Macauley Jackson, Charles Colebrook Sherman, George William Gilmore,1911 **The New Schaff-Herzog Encyclopedia of Religious Knowledge** Samuel Macauley Jackson, Charles Colebrook Sherman, George William Gilmore,1911 Scientific and Technical Aerospace Reports ,1971 **The New Schaff-Herzog Encyclopedia of Religious Knowledge: Son of Man-Tremellius** Albert Hauck, Samuel Macauley Jackson, Charles Colebrook Sherman, George William Gilmore,1911 Monthly Catalogue, United States Public Documents ,1979 Selected Water Resources Abstracts ,1978 *The Journal of the Armed Forces* ,1894 The Country Gentleman ,1904 *The Black Diamond* ,1917 **Oceanographic Literature Review** ,2000 **The Philosopher's Index** ,1979 Vols for 1969 include a section of abstracts

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