

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?

$$200/2000$$

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

$$10/100$$

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

$$P(\text{fail} | \text{blue}) = P(\text{fail}) \\ \frac{10}{100} = \frac{200}{2000}$$

$$P(\text{blue} | \text{fail}) \neq P(\text{blue}) \\ \frac{10}{200} \neq \frac{100}{2000}$$

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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Annelies Wilder-Smith

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