

AP<sup>®</sup> Statistics Quiz B – Chapter 15 Name \_\_\_\_\_

- A survey of families revealed that 58% of all families eat turkey at holiday meals, 44% eat ham, and 16% have both turkey and ham to eat at holiday meals.
  - What is the probability that a family selected at random had neither turkey nor ham at their holiday meal?
  - What is the probability that a family selected at random had only ham without having turkey at their holiday meal?
  - What is the probability that a randomly selected family having turkey had ham at their holiday meal?
  - Are having turkey and having ham disjoint events? Explain.
- Many school administrators watch enrollment numbers for answers to questions parents ask. Some parents wondered if preferring a particular science course is related to the student's preference in foreign language. Students were surveyed to establish their preference in science and foreign language courses. Does it appear that preferences in science and foreign language are independent? Explain.

independent if:  
 $P(\text{French} | \text{chem}) = P(\text{French})$   
 $\frac{11}{51} \stackrel{?}{=} \frac{31}{156}$   
 $.314 \neq .25$

	Chemistry	Physics	Biology	Total
French	16	10	8	34
Spanish	35	23	44	102
Total	51	33	52	136

Not independent!

- For purposes of making budget plans for staffing, a college reviewed student's year in school and area of study. Of the students, 22.5% are seniors, 25% are juniors, 25% are sophomores, and the rest are freshmen. Also, 40% of the seniors major in the area of humanities, as did 39% of the juniors, 40% of the sophomores, and 36% of the freshmen. What is the probability that a randomly selected humanities major is a junior? Show your work.

15-11

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AP<sup>®</sup> Statistics Quiz C – Chapter 15 Name \_\_\_\_\_

- A survey of local car dealers revealed that 64% of all cars sold last month had CD players, 28% had alarm systems, and 22% had both CD players and alarm systems.
  - What is the probability one of these cars selected at random had neither a CD player nor an alarm system?  
 $P(\text{neither}) = .30$   
 $[1 - .70] = .30$
  - What is the probability that a car had a CD player unprotected by an alarm system?  
 $P(\text{CD only}) = .42$   
 $.42$
  - What is the probability a car with an alarm system had a CD player?  
 $P(\text{CD} | \text{Alarm}) = .22$   
 $.28 \approx .786$
  - Are having a CD player and an alarm system disjoint events? Explain.  
 No! 22% of cars sold had both a CD player + an alarm.



- All airline passengers must pass through security screenings, but some are subjected to additional searches as well. Some travelers who carry laptops wonder if that makes them more likely to be searched. Data for 420 passengers aboard a cross-country flight are summarized in the table shown. Does it appear that being subjected to an additional search is independent of carrying a laptop computer? Explain.

	Searched?		Total
	Yes	No	
Laptop	30	42	72
No laptop	145	203	348
Total	175	245	420

independent if:  $P(L | \text{Yes}) = P(L)$   
 $\frac{30}{175} \stackrel{?}{=} \frac{72}{420}$   
 $.171 = .171$   
 Means events are independent!  
 The probability that someone had a laptop given that they were searched is the same as the proportion of all laptops!

- For purposes of making on-campus housing assignments, a college classified its students as Priority A (seniors), Priority B (juniors), and Priority C (freshmen and sophomores). Of the students who choose to live on campus, 10% are seniors, 20% are juniors, and the rest are undergrads. The most desirable dorm is the newly constructed Gold dorm, and 60% of the seniors elect to live there, 15% of the juniors also live there, along with only 5% of the freshmen and sophomores. What is the probability that a randomly selected resident of the Gold dorm is a senior? Show your work clearly on the back of this page.

*Jump*

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# Ap Statistics Quiz B Chapter 15 Answers

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