

UTAustinX: UT.7.10x Foundations of Data Analysis - Part 1



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Question 2

A high school counselor wants to categorize students according to two variables: their gender (male or female) and their grade level (freshman, sophomore, junior or senior).

(1/1 point)

8

2a. To how many possible outcomes can students be assigned?



You have used 1 of 1 submissions

An Economics professor kept a record of grades earned by the college students in his class, as shown below.

	A	В	С	D	F
Freshman	5	10	9	10	6
Sophomore	8	10	9	7	4
Junior	11	5	4	4	2
Senior	9	9	4	2	0

Notice that the marginal totals have not been filled in.

All numerical input answers below should be reported as proportions.

(1/1 point)

2b. What **proportion** of students in the class received a grade of **A**? (Round to 2 decimal places.)

0.26 **R Tutorial Videos** Answer: .26 Pre-Lab 0.26 Pre-Lab due Mar 15, 2016 at 18:00 UTC You have used 1 of 1 submissions Lab Lab due Mar 15, 2016 at 18:00 UTC (1/1 point) **Problem Set** 2c. What proportion of the students were upperclassmen (juniors and Problem Set due Mar seniors)? (Round to 2 decimal places.) 15, 2016 at 18:00 UT 🗹 0.39 Answer: .39 Week 5: Linear **Functions** 0.39You have used 1 of 1 submissions (1/1 point) 2d. What is the probability that a freshman received a failing grade of **F**? (Round to 2 decimal places.) 0.15 Answer: .15 0.15 You have used 1 of 1 submissions (1/1 point) 2e. What is the probability that a randomly selected student from the class would be a **sophomore** that received a grade of **B**? (Round to 2 decimal places.) 0.08 Answer: .08 0.08You have used 1 of 1 submissions (1/1 point) 2f. What **proportion** of juniors passed the course with a grade of **D** or **better**? (Round to 2 decimal places.) Answer: 0.92 0.92

0.92
You have used 1 of 1 submissions
(1/1 point) 2g. What is the probability that a randomly selected student from this class would be a senior ? (Report to 2 decimal places.)
0.19 ✓ Answer: .19
0.19
You have used 1 of 1 submissions
(1/1 point) 2h. If a student received a grade of D in the class, what is the probability that the student was a senior ? (Round to 2 decimal places.)
0.09 ✓ Answer: .09
0.09
You have used 1 of 1 submissions
(1/1 point) 2i. Does the probability that a randomly selected student is a senior change if we know that the student received a grade of D in the course?
● Yes ✔
O No
O No

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