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Question 2

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).

problem

1/1 point (graded)

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



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You have used 1 of 1 attempt

An Economics professor kept a record of grades earned by the college students in his class, as shown below. (In the US, an "A" is the strongest grade and an "F" is the Weakest.)

	A	B	C	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.

problem

1/1 point (graded)

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



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You have used 1 of 1 attempt

problem

1/1 point (graded)

2c. What **proportion** of the students were **upperclassmen** (juniors and seniors)? (Round to 2 decimal places.)



.39

Submit

You have used 1 of 1 attempt

problem

1/1 point (graded)

2d. What is the probability that a freshman received a failing grade of **F**?
(Round to 2 decimal places.)

**.15**

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You have used 1 of 1 attempt

problem

0/1 point (graded)

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.)

✗ Answer: .08**.26**

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You have used 1 of 1 attempt

i Answers are displayed within the problem

problem

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2f. What **proportion** of juniors passed the course with a grade of **D or better**? (*Round to 2 decimal places.*)



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You have used 1 of 1 attempt

problem

1/1 point (graded)

2g. What is the probability that a randomly selected student from this class would be a **senior**? (*Report to 2 decimal places.*)



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You have used 1 of 1 attempt

problem

0/1 point (graded)

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.*)

✗ Answer: .09

.02

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problem

0/1 point (graded)

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 ✓☒ No ✗

Submit

You have used 1 of 1 attempt

i Answers are displayed within the problem

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