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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)

2a. How many possible outcomes can students be assigned to?

8

Show Answer

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1 of An Economics professor kept a record of grades earned by the college students in his class, as shown to be sh

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	Α	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

0.26

Answer: .26

Hide Answer

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(1/1 point)

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

2 of 6

0.39

0.39

Help

Answer: .39

Hide Answer

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(1 point possible)

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

0.5

0.5

Answer: .15

Hide Answer

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(1 point possible)

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.)

0.29

0.29

Answer: .08

Hide Answer

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(1 point possible)

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

0.91

Help

0.91

Answer: 0.92

Hide Answer

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(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

0.19

Answer: .19

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Hide Answer

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(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.)

Help

0.09

0.09

Answer: .09

Hide Answer

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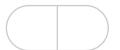
(1/1 point)

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?



Hide Answer

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