

Econometrics I, quiz 1

Susan Thomas

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1. This is a 15-minute quiz
2. At **NO** point in the exam can you discuss the questions/answers with any of your colleagues.
3. When a multiple choice is present, circle the number indicating your choice of the answer.
4. Good luck. :-)

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- **Q1:** The event space is formed by three tosses of a coin. **(4 points)**

- What is the event space?

- What is the probability that three tosses will give two heads and one tail?

- **Q2:** A door-to-door salesperson has found that her success rate in selling is 0.2. If the salesperson contacts three persons, what is the probability that **(3 points)**

1. She sells to all three?
2. She sells to exactly one?
3. She sells to at least one?

- Consider the following marginal distributions for X, Y . **(3 points)**

	0	1	
0		0.14	0.20
1	0.06		0.20
2	0.15	0.45	0.60
	0.27	0.73	1

1. Fill in the missing joint probabilities.
2. Are X, Y independent?