

Econometrics I, quiz 3

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1. This is a 10-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 (3 points):** The table below shows the number of newborn girls and boys in the US in 2002, measured in thousands.

	boys	girls
2002	2058	1964

1. Set up a Bernoulli model for the data. **(2 points)**

 2. Estimate the success parameter for the birth of a girl child. **(1 point)**
- **Q2 (7 points)** Consider a pair of random variables (X, Y) taking values $(1, 0), (0, 1), (-1, 0), (0, -1)$ with equal probability.

	Y			
X				

1. Find the marginal distribution of X.
2. Are X and Y independent? **(1 point)**