Discussion questions:

b. Lada

	Steve is a librarian or a farmer?
	Librarian:
	Farmer:
2.	Dick is a 30 year-old man. He is married with no children. A man of high ability and high motivation, he
	promises to be quite successful in his field. He is well liked by his colleagues. Dick is among a group
	which is consist of 70% engineer and 30% lawyer. What is the probability that Dick is an engineer or a
	lawyer?
	Engineer:
	Lawyer:
3.	A certain town is served by two hospitals. In the larger hospital about <u>150 babies</u> are born each day, and
	in the smaller hospital about 5 babies are born each day. About 50 percent of all babies are boys
	However, the exact percentage varies from day to day. Sometimes it may be higher than 50 percent
	sometimes lower. For a period of 1 year, each hospital recorded the days on which more than 60 percent
	of the babies born were boys. Which hospital do you think recorded more such days?
	a. The larger hospital
	b. The smaller hospital
	c. About the same (that is, within 5 percent of each other)
4.	Imagine an urn filled with balls, of which 2/3 are of one color and 1/3 of another. Hongji has drawn 5
	balls from the urn, and found that 4 were red and 1 was white. Lada has drawn 20 balls and found that
	12 were red and 8 were white. Which of the two individuals should feel more confident that the urr
	contains 2/3 red balls and 1/3 white balls, rather than the opposite?
	a. Hongji

1. Steve is among a group, which is consist of 30% librarian and 70% farmer. What is the probability that

5. Jay is tossing a coin for heads or tails (50% chance for each event). Which sequence is more likely to occur?

6. Phillip observed a roulette wheel hit 5 consecutive reds. Now Phillip has to bet to red or black. What should he choose? (it's a random process to hit red or black)



- **7.** Bet on one of the following two events:
- (a) Drawing a red marble from a bag containing 50 percent red marbles and 50 percent white marbles
- (b) Drawing a red marble at least once in seven successive tries, with replacement, from a bag containing 10 percent red marbles and 90 percent white marbles.
- **8.** What is the number of African countries in the United Nations? Please answer like the following: <u>65</u> countries.

Answer:		

SPEED QUIZ

9.	Consider a group of 10 people who form committees of 8 members. How many committees can be
	formed?
	***IMPORTANT: Answer this question within 5 seconds without calculation. Please write down team
	members' guess below.
10.	Answer WITHIN 5 SECONDS (don't calculate!!!). Write down team members' answers below.
	$1 \times 2 \times 3 \times 4 \times 5 \times 6 \times 7 \times 8 = ?$