






Benha University Engineering Mathematics and Physics Department 1st semester 2011-2012		Faculty of Engineering (Shoubra) Electrical Engineering 2nd year (Communication) Mid term exam (5 marks)
Student Name in Arabic:		Section: B.N.
i- Find the probability of drawing 3 aces at random from a deck of 52 ordinary cards if the cards are (a) replaced, (b) not replaced. ii- Of 200 employees of a company, a total of 120 smoke cigarettes: 60% of the smokers are male and 80% of the non smokers are male. What is the probability that an employee chosen at random is male or smokes cigarettes?		
Good Luck		Dr. Khaled El Naggar @

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Student Name in Arabic:		Section: B.N.
i- When two dice are thrown simultaneously, what is the probability that the sum of the two numbers that turn up is less than 11? ii- Of 200 employees of a company, a total of 120 smoke cigarettes: 60% of the smokers are male and 80% of the non smokers are male. What is the probability that an employee chosen at random is female or does not smoke cigarettes?		
Good Luck		Dr. Khaled El Naggar #

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Student Name in Arabic:		Section: B.N.
i- There are 9 beads in a bag. 3 beads are red, 3 beads are blue, and 3 beads are black. If two beads are chosen at random, what is the probability that they are at least one blue? ii- Of 200 employees of a company, a total of 120 smoke cigarettes: 60% of the smokers are male and 80% of the non smokers are male. What is the probability that an employee chosen at random is is male or does not smoke?		
Good Luck		Dr. Khaled El Naggar \$

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Student Name in Arabic:		Section: B.N.
<p>i- Six beads are in a bag: one blue, two red, and three green. If three beads are randomly drawn from the bag, what is the probability that they are at least one green?</p> <p>ii- Suppose there is a school with 60% boys and 40% girls as students. The female students wear trousers or skirts in equal numbers; the boys all wear trousers. An observer sees a (random) student from a distance; all the observer can see is that this student is wearing trousers. What is the probability this student is a girl?</p>		
Good Luck		Dr. Khaled El Naggar %

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Student Name in Arabic:		Section: B.N.
<p>i- Seven beads are in a bag: three blue, two red, and two green. If three beads are randomly drawn from the bag, what is the probability that they are not blue?</p> <p>ii- Suppose there is a school with 60% boys and 40% girls as students. The female students wear trousers or skirts in equal numbers; the boys all wear trousers. An observer sees a (random) student from a distance; all the observer can see is that this student is wearing trousers. What is the probability this student is a boy?</p>		
Good Luck		Dr. Khaled El Naggar &