

1. The number of foreign tourists who visit the Borobudur temple is 10,000 people per year and the average expenditure for shopping is \$4.500/person with a standard deviation \$800. If 1500 foreign tourists are taken as samples, determine their probability :
 - a. The expenditure is around \$4.525-\$4.565
 - b. Minimum shopping expenditure is \$4.485
2. The average marks for statistic and probability midterm : 15 Group A students have an average of 70.4 and the standard deviation of 5.8. 14 Group B students have an average of 68.7 and the standard deviation of 4.5. With the confidence interval of 95%, estimate the difference of the average value of the two groups !
3. 340 of 500 students of Teknik Informatika UDINUS already have a boyfriend/girlfriend. 225 of 400 students of Sistem Informasi UDINUS already have a boyfriend/girlfriend. With the confidence interval of 97.5%, estimate the proportional difference of Teknik Informatika and Sistem Informasi students that already have a boyfriend/girlfriend !
4. Average net income of 120 farmers in America if they plant rice from a box of soil is \$2.490, with the standard deviation of \$50. Average net income of 125 farmers in America if they plant tomato from a box of soil is \$2.480, with the standard deviation of \$35. The real extent is 4%, test whether the farmers would better to plant rice or tomato !
5. 400 of 500 teenagers in East Java married at an early age. 250 of 400 teenagers in Central Java married at an early age. With the real extent of 3%, test whether there are similarities between the proportion of teens who get married at an early age in both regions !

000 Selamat Mengerjakan 000