

EE 381 Quiz 6 (Take-Home)

Name, I.D. #, and Date: _____

Instructions: This is a take-home quiz. It is acceptable to work on it with other members of your class. It is due in seminar Wednesday 5/6/20

Tropaeolum majus (nasturtium) are sold in bags at the farmers' market. A patron weighs ten random nasturtiums on a portable scale. The data is listed below in grams. Determine the C.I. for the true mean weight of an individual nasturtium at the 95% confidence level.

1.45g, 1.35g, 1.45g, 1.65g, 1.72g, 1.45g, 1.35g, 1.92g, 1.76g, and 1.61g.

At the farmers' market there is a large pile of mixed white and yellow peaches. A random selection of 144 of these peaches results in 36 of the peaches being yellow. Determine the C.I. for the true proportion of peaches that are yellow at the 95% level of confidence.

Carrots grown in the home garden can have a large variation in weight. This weight is normally distributed. An independent random sample of eight carrots had the following weights in grams, 100, 20, 25, 15, 50, 25, 30, 15. Determine the confidence interval (C.I.) for the true standard deviation of the weight at the 90% level of confidence.