

# Need help with deciding sample n sub sample. size for nested design(DOE)

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Hi Guys:

I am doing a nested design experiment. I know the amount it is going to cost me to have 1 subsample within the sample tested(example \$5). Also I know the total amount i have for conducting tests(example \$1000).

The criteria for making the decision is variability should not be more than +/- 0.2 units. There are 2 suppliers. I want to decide upon the supplier.

I would like to know how should i calculate the number of samples from each supplier and the subsamples within each sample for each supplier.

I just know that Supplier\* Sample\*Sub sample= (1000/5).

Thanks in advance.

Kind regards;

Shankardas