19-1

a. Number is the key word here, not color or type

[b. is](http://b.is) this data from a sample or represent a population

c. what is this topic about?

d. No, that is why confidence intervals were created. to get a sense of the population parameter.

e. unfortunately not.

f. what is the sample statistic for the population parameter sigma (ie what is the symbol for the sample standard deviation)

applet

j.

k. the idea here is that using s with z, the confidence interval produced is too narrow,  
and does not include the mean 95% of the time, like at 95% C.I. should

l. it won't do 1000, it will only do 300 max, but you can still do the exercise

as n goes down, then number of failed intervals should go up in this situation, z with s

t has same conditions at z (30)  
discuss df = n-1  
note t-distribution is assymptotic

19-2 t-distribution

all same as z

h) important!

a. same as for z

b. ask for equations if you don't know them

c. use excel or spss.  If you use excel, there is no function confidence using  
sample statistics. and stdeva