



During June 2020, 2,395 salinity measurements were taken in the Mokauea loko i'a. A sample of 100 of these measurements was taken and found that 66% of the sample contained measurements that were less than 22.5 PSU. The distribution of this sample is Normal.

With the above information, fill in the following:

Find the standard error. Round your answer to the nearest thousandth; HOWEVER, keep your calculated in your calculator for the next problem.

 $SE = \sqrt{(p(1-p))/n}$

Find the margin of error at a 95% confidence level. Use the standard deviation kept in your calculator. Round your answer to the nearest thousandth.

Find the confidence intervals. Interpret your answer using percentages.