Warm-up:

1. Determine the critical value, z_0, to test the claim about the population proportion $p > 0.035$ given n = 120 and $\hat{p} = 0.042.$ Use $\alpha = 0.05.$

2. Find the standardized test statistic ***t*** for a sample with $n = 25, \overline{x} = 12.6, s = 1.2, \alpha = 0.01$ if $H_0 : \mu \leq 13.$ Round your answer to three decimal places.

3. Determine the standardized test statistic, ***z***, to test the claim about the population proportion $p \geq 0.215$ given n = 50 and $\hat{p} = 0.208.$ Use $\alpha = 0.10.$ Round your answer to two decimal places.