

warm-up:

The mean ACT composite score in a recent year is 20.8. A random sample of 36 ACT composite scores is selected. What is the probability that the mean score for the sample is: $\sigma = 5.6$

1. less than 21.6

$$z = \frac{\bar{x} - \mu}{\frac{\sigma}{\sqrt{n}}}$$

2. more than 19.8