Warm-up:

1. Describe when to use normal distribution and when to use t-distribution. When would you not be able to use either?

2. Find the critical value, t_c , for c = 0.90 and n = 18.

3. Find the margin of error, E, for c = 0.98, n = 21, and s = 1.5.

4. When 350 high school students were surveyed, 124 said they take the bus. Find a point estimate for p, the population proportion of students who take the bus.

5. A pollster wishes to estimate the proportion of U.S. voters who favor free education. How large a sample is needed in order to be 90% confident that the sample proportion will not differ from the true proportion by more than 4%?