

Show all necessary work and place your answers in/on the spaces provided.

The Top 200.

Every year favorite songs compete to be on a Top 200 list based upon sales and rankings by experts in the music industry. These songs have many characteristics, such as song length and beats per minute, which vary from category to category. A disc jockey wondered if the number of beats per minute in songs classified as dance music were lower than the number of beats per minute in the songs that were ranked on the Top 200 list from 2001. A random sample of songs from each group was selected and the beats per minute are listed here. Does this sample indicate that songs classified as dance music have fewer beats per minute than the songs ranked on the Top 200 list?

Test an appropriate hypothesis and state your conclusion.

Beats per Minute			
Dance Songs		Top 200 Songs	
121	119	122	120
122	121	121	118
117	122	121	121
120	119	122	123
120	119	121	118
121	118	119	120
118	120	120	124
120	123	119	
117	118		