

■ **CLASS DISCUSSION ITEM 8.6**

***Audio CD Technology***

A compact disk (CD) stores music (an analog signal) in a digital format. How is this done? How is the digital data reconverted to the music you hear? Given that audible frequencies range from 20 Hz to 20 kHz, what is an appropriate sampling frequency? For this sampling rate, how many bits must be stored on a CD to produce 45 minutes of listening pleasure?