According to research recently reported by a group from the University of Maryland in Baltimore, there was a 200% increase in the number of pedestrians injured while listening through earbuds/headphones between 2004 and 2011. Nearly three-quarters of the time, the injuries were fatal. Along with this increase in injuries to pedestrians wearing earbuds/headphones, the Pew Internet American Life Project found that the number of teenagers owning MP3 players and cell phones, devices with headphones, had also increased. The table provided to you contains a portion of the data the researchers collected. It does not include information about “near misses”, in which pedestrians avoided injury, but came close to being hurt.

In response to the study, PTO has decided to discuss this issue with students and parents at their spring safety presentation. They would like you to use the research group’s data to help them determine which grade(s) should be targeted and whether they should focus on conveying this message to boys or girls.

Use histograms, box plots, and frequency distribution tables to organize your data. Describe the data using measures of center, shape, spread, and outliers. Prepare a recommendation to the PTO.