**1.Violin plot of scores**

A diagram of a diamond shaped object

Description automatically generated

These violin plots depict the distributions of math, reading, and writing scores across different groups, likely representing different classes, genders, or other categories.

Each plot shows the distribution for a single score type:

The wider areas of the violin shape represent a higher density of data points at those values.

The thinner tails show areas with fewer data points.

The black line within the violin indicates the median score.

The whiskers extending from the violin represent the interquartile range (IQR), encompassing the middle 50% of the data.

**2.Student Performance by Gender**

It appears to be a bar graph that shows the percentage of students who scored higher in math, reading, and writing scores by gender**.**

Math: In math, a slightly higher percentage of females (53%) scored higher than males (47%).

Reading: In reading, a significantly lower percentage of males (38%) scored higher than females (62%).

Writing: In writing, a similar pattern to reading is observed, with a lower percentage of males (41%) scoring higher than females (59%)

A graph of a student performance

Description automatically generated

**3.Parental level Of Education**

The pie chart suggests that a significant portion of the respondents have not completed a four-year degree (some college: 22.60% + associate's degree: 17.90% = 40.50%). However, a sizeable percentage also hold bachelor's degrees (19.60%) and master's degrees (17.90%). Professional degrees are the least common attainment level in this group.

A pie chart with numbers and text

Description automatically generated

4.The below graphs listed compare the different test scores

A graph of a graph with a number of colored squares

Description automatically generated with medium confidence

The median math score for girls ("F") appears to be higher than the median score for boys ("M"). The line representing the median for girls is positioned higher in the box**.**

A graph of a test preparation course

Description automatically generated

A graph of a test preparation course

Description automatically generated