4.10.4 Format the Averages and Remove the Index Name

Just as you've done for the previous DataFrames, Maria would like you to format the reading and math averages to one decimal place and removed the name of the index column. This will make the DataFrame look cleaner and more professional.

For reporting purposes, we'll format the grade-level averages to one decimal place, as well as remove the name of the index column, `school_name`.

REWIND

To format every row in a column, use the `map()` function. Inside the parentheses, apply the formatting using `"{ }".format`.

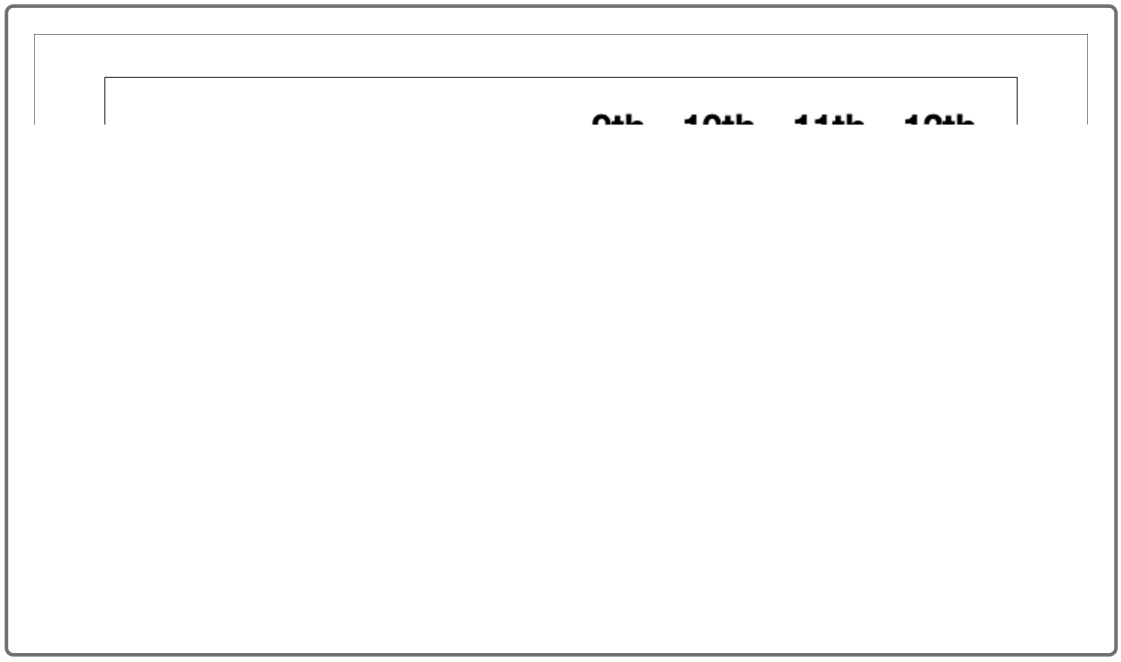
To format `float64` data types to one decimal place, add `{:.1f}` inside the quotations, like this: `map("{:.1f}".format`.

To format the reading and math averages for each grade level we'll use `map("{:.1f}".format`. And we'll remove the index, `school_name`, by setting the index name to "None" with the following syntax: `index.name = None`.

Let's apply these methods to the `math_scores_by_grade` DataFrame first. Add the following code and run the cells:

```
# Format each grade column.
math_scores_by_grade["9th"] = math_scores_by_grade["9th"].map("{:.1f}".for

math_scores_by_grade["10th"] = math_scores_by_grade["10th"].map("{:.1f}".f

math_scores_by_grade["11th"] = math_scores_by_grade["11th"].map("{:.1f}".f

math_scores_by_grade["12th"] = math_scores_by_grade["12th"].map("{:.1f}".f

# Make sure the columns are in the correct order.
math_scores_by_grade = math_scores_by_grade[
               ["9th", "10th", "11th", "12th"]]

# Remove the index name.
math_scores_by_grade.index.name = None
# Display the DataFrame.
math_scores_by_grade.head()
```

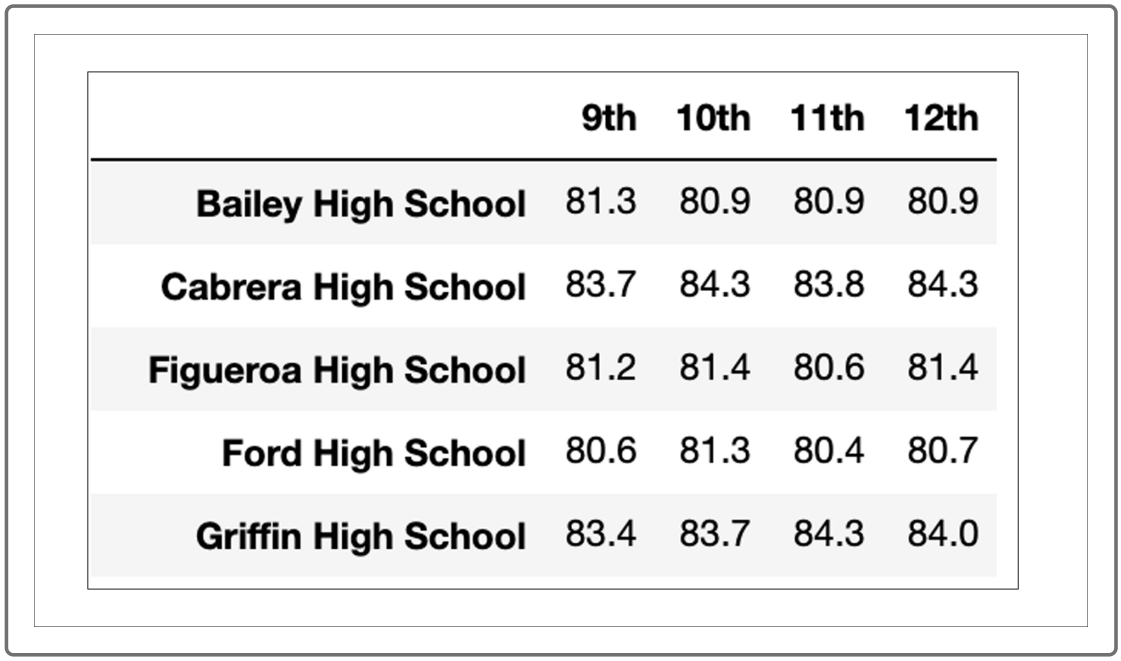
After we run this code, the `math_scores_by_grade` DataFrame will look like this:



Now apply the same formatting method and remove the index name for the `reading_scores_by_grade` DataFrame. Add the following code to a new cell and run the cell.

```
# Format each grade column.
reading_scores_by_grade["9th"] = reading_scores_by_grade["9th"].map("{:,.1

reading_scores_by_grade["10th"] = reading_scores_by_grade["10th"].map("{:,

reading_scores_by_grade["11th"] = reading_scores_by_grade["11th"].map("{:,

reading_scores_by_grade["12th"] = reading_scores_by_grade["12th"].map("{:,

# Make sure the columns are in the correct order.
reading_scores_by_grade = reading_scores_by_grade[
               ["9th", "10th", "11th", "12th"]]

# Remove the index name.
reading_scores_by_grade.index.name = None
# Display the data frame.
reading_scores_by_grade.head()
```

After running this code, the `reading_scores_by_grade` DataFrame will look like this:



	9th	10th	11th	12th
Bailey High School	81.3	80.9	80.9	80.9
Cabrera High School	83.7	84.3	83.8	84.3
Figueroa High School	81.2	81.4	80.6	81.4
Ford High School	80.6	81.3	80.4	80.7
Griffin High School	83.4	83.7	84.3	84.0