

4.12.4 Create a DataFrame for the Scores by School Size

Now it's time to add the average math and reading scores, the average percentage of students who passed math and reading, and the average overall percentage to a new DataFrame. You should get to work so that you can present your findings to Maria.

Just like we did with the school spending data, we are going to add the average math and reading scores, the average percentage of students who passed math and reading, and the average overall percentage to a new DataFrame.

Create the Size Summary DataFrame

To create the size summary DataFrame, add the following code to a new cell and run the cell.

```
# Assemble into DataFrame.  
size_summary_df = pd.DataFrame({  
    "Average Math Score" : size_math_scores,
```

```
"Average Reading Score": size_reading_scores,  
"% Passing Math": size_passing_math,  
"% Passing Reading": size_passing_reading,  
"% Overall Passing": size_overall_passing})
```

```
size_summary_df
```

The results in the output window will look like this:



Now we need to apply the proper formatting to ensure the DataFrame adheres to grade-reporting standards. We need to do the following:

- Format the average math and reading scores to one decimal place
- Format the percentage of students passing math and reading to the nearest whole number
- Format the overall passing percentage to the nearest whole number

To do this, we can repurpose some code from the `spending_summary_df` DataFrame.

Format the DataFrame

To format the `size_summary_df` DataFrame, add the following code to a new cell and run the cell.

```
# Formatting.  
size_summary_df["Average Math Score"] = size_summary_df["Average Math Score"]  
  
size_summary_df["Average Reading Score"] = size_summary_df["Average Reading  
size_summary_df["% Passing Math"] = size_summary_df["% Passing Math"].map("{
```

```
size_summary_df["% Passing Reading"] = size_summary_df["% Passing Reading"].  
size_summary_df["% Overall Passing"] = size_summary_df["% Overall Passing"].  
size_summary_df
```

The formatted `size_summary_df` DataFrame should look like this:



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