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In [1]: import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns

In [2]: df = pd.read_csv("student_scores.csv")
print(df.head())

   Unnamed: 0  Gender EthnicGroup  ParentEduc  LunchType TestPrep  \
0           0      0      female      NaN  bachelor's degree  standard  none
1           1      1      female  group C  some college  standard  NaN
2           2      2      female  group B  master's degree  standard  none
3           3      3      male  group A  associate's degree  free/reduced  none
4           4      4      male  group C  some college  standard  none

   ParentMaritalStatus PracticeSport IsFirstChild  NrSiblings TransportMeans  \
0      married  regularly  yes  3.0  school_bus
1      married  sometimes  yes  0.0  NaN
2      single  sometimes  yes  4.0  school_bus
3      married  never  no  1.0  NaN
4      married  sometimes  yes  0.0  school_bus

   WklyStudyHours  MathScore  ReadingScore  WritingScore
0      < 5      71      71      74
1    05-Oct      69      90      88
2      < 5      87      93      91
3    05-Oct      45      56      42
4    05-Oct      76      78      75

In [3]: df.describe ()

Out [3]:
```

	Unnamed: 0	NrSiblings	MathScore	ReadingScore	WritingScore
count	30641.000000	29069.000000	30641.000000	30641.000000	30641.000000
mean	499.556607	2.145894	66.558402	69.377533	68.418622
std	288.747894	1.458242	15.361616	14.758952	15.443525
min	0.000000	0.000000	0.000000	10.000000	4.000000
25%	249.000000	1.000000	56.000000	59.000000	58.000000
50%	500.000000	2.000000	67.000000	70.000000	69.000000
75%	750.000000	3.000000	78.000000	80.000000	79.000000
max	999.000000	7.000000	100.000000	100.000000	100.000000

```
In [4]: df.info ()

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 30641 entries, 0 to 30640
Data columns (total 15 columns):
#   Column      Non-Null Count  Dtype
---  -
0  Unnamed: 0  30641 non-null  int64
1  Gender      30641 non-null  object
2  EthnicGroup 28801 non-null  object
3  ParentEduc  28796 non-null  object
4  LunchType   30641 non-null  object
5  TestPrep    28811 non-null  object
6  ParentMaritalStatus 29451 non-null  object
7  PracticeSport 30010 non-null  object
8  IsFirstChild 29737 non-null  object
9  NrSiblings  29069 non-null  float64
10 TransportMeans 27507 non-null  object
11 WklyStudyHours 29686 non-null  object
12 MathScore   30641 non-null  int64
13 ReadingScore 30641 non-null  int64
14 WritingScore 30641 non-null  int64
dtypes: float64(1), int64(4), object(10)
memory usage: 3.5+ MB

In [5]: df.isnull().sum()

Out [5]:
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In [6]: df = df.drop("Unnamed: 0", axis = 1)
print(df.head())

   Gender EthnicGroup  ParentEduc  LunchType TestPrep  ParentMaritalStatus  PracticeSport  IsFirstChild  NrSiblings  TransportMeans  WklyStudyHours  MathScore  ReadingScore  WritingScore
0  female      NaN  bachelor's degree  standard  none  married  regularly  yes  3.0  school_bus  < 5      71      71      74
1  female  group C  some college  standard  NaN  married  sometimes  yes  0.0  NaN  5-10      69      90      88
2  female  group B  master's degree  standard  none  single  sometimes  yes  4.0  school_bus  < 5      87      93      91
3  male  group A  associate's degree  free/reduced  none  married  never  no  1.0  NaN  5-10      45      56      42
4  male  group C  some college  standard  none  married  sometimes  yes  0.0  school_bus  5-10      76      78      75

   ParentMaritalStatus PracticeSport IsFirstChild  NrSiblings TransportMeans  \
0      married  regularly  yes  3.0  school_bus
1      married  sometimes  yes  0.0  NaN
2      single  sometimes  yes  4.0  school_bus
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   WklyStudyHours  MathScore  ReadingScore  WritingScore
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3    05-Oct      45      56      42
4    05-Oct      76      78      75

In [7]: df["WklyStudyHours"] = df["WklyStudyHours"].str.replace("05-Oct", "5-10")
df.head()
```

