

```
import pandas as pd
import numpy as np
```

```
data = pd.read_csv('StudentsPerformance.csv')
```

```
data.head()
```

	gender	race/ethnicity	parental level of education	lunch
0	female	group B	bachelor's degree	standard
1	female	group C	some college	standard
2	female	group B	master's degree	standard
3	male	group A	associate's degree	free/reduced
4	male	group C	some college	standard

	test preparation course	math score	reading score	writing score
0	none	72	72	74
1	completed	69	90	88
2	none	90	95	93
3	none	47	57	44
4	none	76	78	75

```
# Remove some unused columns
```

```
del data['gender']
del data['race/ethnicity']
del data['parental level of education']
del data['lunch']
del data['test preparation course']
```

```
data.head()
```

	math score	reading score	writing score
0	72	72	74
1	69	90	88
2	90	95	93
3	47	57	44
4	76	78	75

```
data.shape
```

```
(1000, 3)
```

```
import matplotlib.pyplot as plt
import seaborn as sns
```

```
data.describe()
```

	math score	reading score	writing score
count	1000.00000	1000.000000	1000.000000
mean	66.08900	69.169000	68.054000
std	15.16308	14.600192	15.195657
min	0.00000	17.000000	10.000000
25%	57.00000	59.000000	57.750000

50%	66.00000	70.000000	69.000000
75%	77.00000	79.000000	79.000000
max	100.00000	100.000000	100.000000

```
data.sum()
```

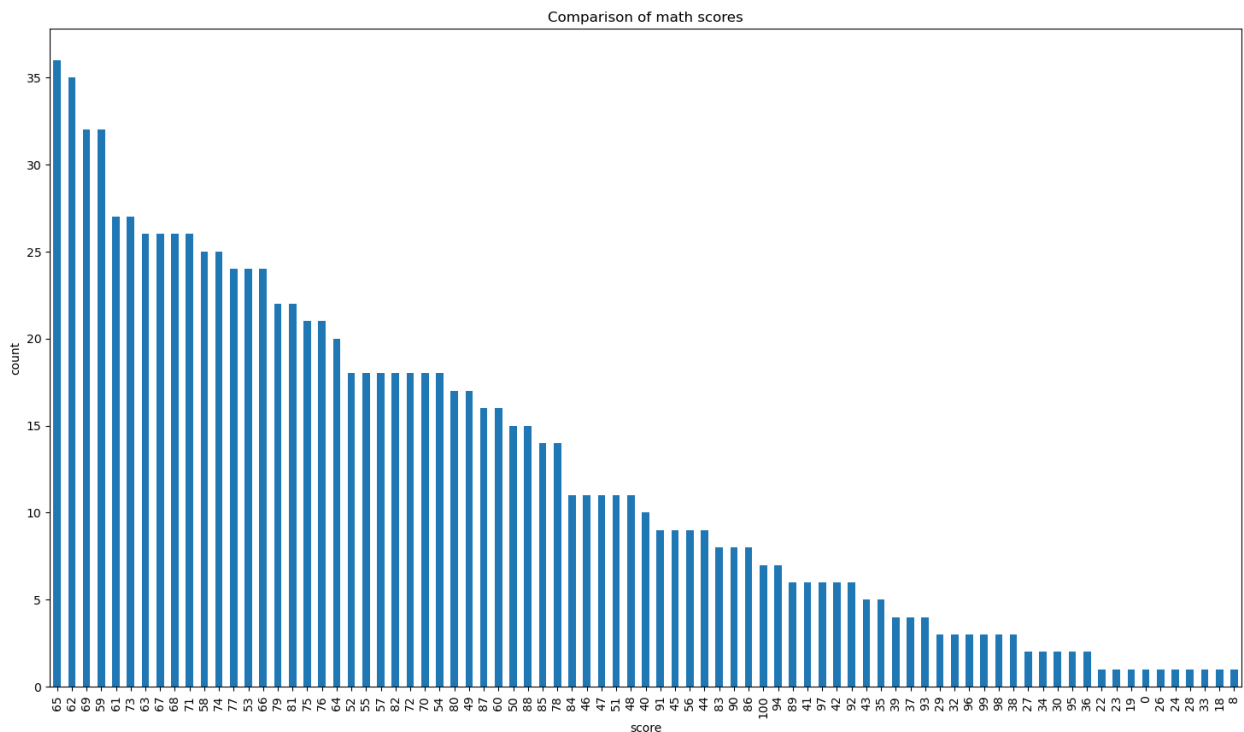
```
math score      66089
reading score    69169
writing score    68054
dtype: int64
```

```
data.mean()
```

```
math score      66.089
reading score    69.169
writing score    68.054
dtype: float64
```

```
# visualizing maths score
```

```
data['math score'].value_counts(normalize = True)
data['math score'].value_counts(dropna = False).plot.bar(figsize =
(18, 10))
plt.title('Comparison of math scores')
plt.xlabel('score')
plt.ylabel('count')
plt.show()
```



```
# visualizing reading score score
data['reading score'].value_counts(normalize = True)
data['reading score'].value_counts(dropna = False).plot.bar(figsize =
(18, 10), color = 'orange')
plt.title('Comparison of reading scores')
plt.xlabel('score')
plt.ylabel('count')
plt.show()
```

