

```
In [8]: print('Data Frames Primer')
import numpy as np
import pandas as pd
print('\n 1. Input the following data into a data frame called titanic, and displ

Titanic_Survivors = {'Sex' :['Children', 'Children', 'Children','Men', 'Men','Men',
                             'Class' : ['First','Second','Third','First','Second','Third',
                             'Survived' : [6,24,27,57,14,75,192,140,80,76,20],
                             'Died' : [0,0,52,118,154,387,693,4,13,89,3]}

ts = pd.DataFrame(Titanic_Survivors,columns=['Sex', 'Class', 'Survived', 'Died'])
print (ts)
```

#### Data Frames Primer

1. Input the following data into a data frame called titanic, and display the entire data frame:

	Sex	Class	Survived	Died
0	Children	First	6	0
1	Children	Second	24	0
2	Children	Third	27	52
3	Men	First	57	118
4	Men	Second	14	154
5	Men	Third	75	387
6	Men	Crew	192	693
7	Women	First	140	4
8	Women	Second	80	13
9	Women	Third	76	89
10	Women	Crew	20	3

```
In [13]: print('2. Delete the crew members from the data.')

#ts.drop([6 , 10], axis=0, inplace = True)

ts = ts[ts["Class"] != 'Crew']
print (ts)
```

2. Delete the crew members from the data.

	Sex	Class	Survived	Died
0	Children	First	6	0
1	Children	Second	24	0
2	Children	Third	27	52
3	Men	First	57	118
4	Men	Second	14	154
5	Men	Third	75	387
7	Women	First	140	4
8	Women	Second	80	13
9	Women	Third	76	89

```
In [20]: print('3. Create a new column that is the total number of people for that group (those who survived + died).')
ts['Total'] = ts['Survived'] + ts['Died']
print(ts)
```

3. Create a new column that is the total number of people for that group (those who survived + died).

	Sex	Class	Survived	Died	Total
0	Children	First	6	0	6
1	Children	Second	24	0	24
2	Children	Third	27	52	79
3	Men	First	57	118	175
4	Men	Second	14	154	168
5	Men	Third	75	387	462
7	Women	First	140	4	144
8	Women	Second	80	13	93
9	Women	Third	76	89	165

```
In [21]: print('4. Delete the column indicating the total number of people in that group.')
ts.drop(['Total'], axis = 1, inplace = True)
print(ts)
```

4. Delete the column indicating the total number of people in that group.

	Sex	Class	Survived	Died
0	Children	First	6	0
1	Children	Second	24	0
2	Children	Third	27	52
3	Men	First	57	118
4	Men	Second	14	154
5	Men	Third	75	387
7	Women	First	140	4
8	Women	Second	80	13
9	Women	Third	76	89

```
In [34]: print('5. Only show the rows where more than 80% of the people survived.\n')
print(ts[(ts['Survived']/(ts['Survived']+ ts['Died']))*100 > 80])
```

5. Only show the rows where more than 80% of the people survived.

	Sex	Class	Survived	Died
0	Children	First	6	0
1	Children	Second	24	0
7	Women	First	140	4
8	Women	Second	80	13

In [ ]: