```python
import pandas as pd
import matplotlib.pyplot as plt
```

In [4]:

```python
df = pd.read_csv(r"results.csv", encoding = "ISO-8859-1")
```

In [5]:

Home Match

In [6]:

```python
filt = df['Season'] == '2020-21'
df[filt]
filt2 = df['HomeTeam'] == 'Liverpool'
HomeMatch = df[filt][filt2]
HomeMatch
```

```
/var/folders/fs/7xwm968n3gz7y_pc2ghf916c0000gn/T/ipykernel_36935/360760410
0.py:4: UserWarning: Boolean Series key will be reindexed to match DataFram
e index.
  HomeMatch = df[filt][filt2]
```

Out[6]:

	Season	DateTime	HomeTeam	AwayTeam	FTHG	FTAG	FTR	HTHG	HTAG
10426	2020-21	2020-09-12T17:30:00Z	Liverpool	Leeds	4	3	H	3.0	2.0
10451	2020-21	2020-09-28T20:00:00Z	Liverpool	Arsenal	3	1	H	2.0	1.0
10476	2020-21	2020-10-24T20:00:00Z	Liverpool	Sheffield United	2	1	H	1.0	1.0
10485	2020-21	2020-10-31T17:30:00Z	Liverpool	West Ham	2	1	H	1.0	1.0
10509	2020-21	2020-11-22T19:15:00Z	Liverpool	Leicester	3	0	H	2.0	0.0
10529	2020-21	2020-12-06T19:15:00Z	Liverpool	Wolves	4	0	H	1.0	0.0
10547	2020-21	2020-12-16T20:00:00Z	Liverpool	Tottenham	2	1	H	1.0	1.0
10569	2020-21	2020-12-27T16:30:00Z	Liverpool	West Brom	1	1	D	1.0	0.0
10600	2020-21	2021-01-17T16:30:00Z	Liverpool	Man United	0	0	D	0.0	0.0
10607	2020-21	2021-01-21T20:00:00Z	Liverpool	Burnley	0	1	A	0.0	0.0
10637	2020-21	2021-02-03T20:15:00Z	Liverpool	Brighton	0	1	A	0.0	0.0
10646	2020-21	2021-02-07T16:30:00Z	Liverpool	Man City	1	4	A	0.0	0.0
10664	2020-21	2021-02-20T17:30:00Z	Liverpool	Everton	0	2	A	0.0	1.0
10688	2020-21	2021-03-04T20:15:00Z	Liverpool	Chelsea	0	1	A	0.0	1.0
10694	2020-21	2021-03-07T14:00:00Z	Liverpool	Fulham	0	1	A	0.0	1.0
10726	2020-21	2021-04-10T15:00:00Z	Liverpool	Aston Villa	2	1	H	0.0	1.0
10745	2020-21	2021-04-24T12:30:00Z	Liverpool	Newcastle	1	1	D	1.0	0.0
10765	2020-21	2021-05-08T20:15:00Z	Liverpool	Southampton	2	0	H	1.0	0.0
10799	2020-21	2021-05-23T16:00:00Z	Liverpool	Crystal Palace	2	0	H	1.0	0.0

19 rows × 23 columns

Home goal and home conceded goal

```
In [7]: print(HomeMatch['FTHG'].sum())
        print(HomeMatch['FTAG'].sum())
```

```
29
20
```

Home win

```
In [8]: filt3 = HomeMatch['FTHG'] > HomeMatch['FTAG']
        HomeWin = HomeMatch[filt3]
        HomeWin
        #print('Liverpool home win: ' + str(len(HomeWin.index)))
```

Out[8]:

	Season	DateTime	HomeTeam	AwayTeam	FTHG	FTAG	FTR	HTHG	HTAG	
10426	2020-21	2020-09-12T17:30:00Z	Liverpool	Leeds	4	3	H	3.0	2.0	
10451	2020-21	2020-09-28T20:00:00Z	Liverpool	Arsenal	3	1	H	2.0	1.0	
10476	2020-21	2020-10-24T20:00:00Z	Liverpool	Sheffield United	2	1	H	1.0	1.0	
10485	2020-21	2020-10-31T17:30:00Z	Liverpool	West Ham	2	1	H	1.0	1.0	
10509	2020-21	2020-11-22T19:15:00Z	Liverpool	Leicester	3	0	H	2.0	0.0	
10529	2020-21	2020-12-06T19:15:00Z	Liverpool	Wolves	4	0	H	1.0	0.0	
10547	2020-21	2020-12-16T20:00:00Z	Liverpool	Tottenham	2	1	H	1.0	1.0	
10726	2020-21	2021-04-10T15:00:00Z	Liverpool	Aston Villa	2	1	H	0.0	1.0	
10765	2020-21	2021-05-08T20:15:00Z	Liverpool	Southampton	2	0	H	1.0	0.0	
10799	2020-21	2021-05-23T16:00:00Z	Liverpool	Crystal Palace	2	0	H	1.0	0.0	

10 rows × 23 columns

Home draw

```
In [9]: filt4 = HomeMatch['FTHG'] == HomeMatch['FTAG']
        HomeDraw = HomeMatch[filt4]
        HomeDraw
        #print('Liverpool home draw: ' + str(len(HomeDraw.index)))
```

Out[9]:

	Season	DateTime	HomeTeam	AwayTeam	FTHG	FTAG	FTR	HTHG	HTAG	HT
10569	2020-21	2020-12-27T16:30:00Z	Liverpool	West Brom	1	1	D	1.0	0.0	
10600	2020-21	2021-01-17T16:30:00Z	Liverpool	Man United	0	0	D	0.0	0.0	
10745	2020-21	2021-04-24T12:30:00Z	Liverpool	Newcastle	1	1	D	1.0	0.0	

3 rows × 23 columns

Home lose

In [10]:
```python
filt5 = HomeMatch['FTHG'] < HomeMatch['FTAG']
HomeLose = HomeMatch[filt5]
HomeLose
#print('Liverpool home lose: ' + str(len(HomeLose.index)))
```

Out[10]:

	Season	DateTime	HomeTeam	AwayTeam	FTHG	FTAG	FTR	HTHG	HTAG	HT
10607	2020-21	2021-01-21T20:00:00Z	Liverpool	Burnley	0	1	A	0.0	0.0	
10637	2020-21	2021-02-03T20:15:00Z	Liverpool	Brighton	0	1	A	0.0	0.0	
10646	2020-21	2021-02-07T16:30:00Z	Liverpool	Man City	1	4	A	0.0	0.0	
10664	2020-21	2021-02-20T17:30:00Z	Liverpool	Everton	0	2	A	0.0	1.0	
10688	2020-21	2021-03-04T20:15:00Z	Liverpool	Chelsea	0	1	A	0.0	1.0	
10694	2020-21	2021-03-07T14:00:00Z	Liverpool	Fulham	0	1	A	0.0	1.0	

6 rows × 23 columns

Home corner

In [11]:
```python
HomeMatch['HC'].sum()
```

Out[11]: 140.0

Home shots

In [12]:
```python
HomeMatch['HS'].sum()
```

Out[12]: 317.0

Home foul committed

In [13]: `HomeMatch['HF'].sum()`

Out[13]: 204.0

Home yellow card

In [14]: `HomeMatch['HY'].sum()`

Out[14]: 21.0

Home red card

In [15]: `HomeMatch['HR'].sum()`

Out[15]: 0.0

Away Match

In [16]:
```
filt = df['Season'] == '2020-21'
df[filt]
filt2 = df['AwayTeam'] == 'Liverpool'
AwayMatch = df[filt][filt2]
AwayMatch
```

```
/var/folders/fs/7xwm968n3gz7y_pc2ghf916c0000gn/T/ipykernel_36935/294809760
6.py:4: UserWarning: Boolean Series key will be reindexed to match DataFram
e index.
  AwayMatch = df[filt][filt2]
```

Out[16]:

	Season	DateTime	HomeTeam	AwayTeam	FTHG	FTAG	FTR	HTHG	HTAG
10438	2020-21	2020-09-20T16:30:00Z	Chelsea	Liverpool	0	2	A	0.0	0.0
10461	2020-21	2020-10-04T19:15:00Z	Aston Villa	Liverpool	7	2	H	4.0	1.0
10462	2020-21	2020-10-17T12:30:00Z	Everton	Liverpool	2	2	D	1.0	1.0
10500	2020-21	2020-11-08T16:30:00Z	Man City	Liverpool	1	1	D	1.0	1.0
10513	2020-21	2020-11-28T12:30:00Z	Brighton	Liverpool	1	1	D	0.0	0.0
10538	2020-21	2020-12-13T16:30:00Z	Fulham	Liverpool	1	1	D	1.0	0.0
10551	2020-21	2020-12-19T12:30:00Z	Crystal Palace	Liverpool	0	7	A	0.0	3.0
10578	2020-21	2020-12-30T20:00:00Z	Newcastle	Liverpool	0	0	D	0.0	0.0
10587	2020-21	2021-01-04T20:00:00Z	Southampton	Liverpool	1	0	H	1.0	0.0
10618	2020-21	2021-01-28T20:00:00Z	Tottenham	Liverpool	1	3	A	0.0	1.0
10627	2020-21	2021-01-31T16:30:00Z	West Ham	Liverpool	1	3	A	0.0	0.0
10649	2020-21	2021-02-13T12:30:00Z	Leicester	Liverpool	3	1	H	0.0	0.0
10680	2020-21	2021-02-28T19:15:00Z	Sheffield United	Liverpool	0	2	A	0.0	0.0
10709	2020-21	2021-03-15T20:00:00Z	Wolves	Liverpool	0	1	A	0.0	1.0
10717	2020-21	2021-04-03T20:00:00Z	Arsenal	Liverpool	0	3	A	0.0	0.0
10739	2020-21	2021-04-19T20:00:00Z	Leeds	Liverpool	1	1	D	0.0	1.0
10775	2020-21	2021-05-13T20:15:00Z	Man United	Liverpool	2	4	A	1.0	2.0
10782	2020-21	2021-05-16T16:30:00Z	West Brom	Liverpool	1	2	A	1.0	1.0
10792	2020-21	2021-05-19T20:15:00Z	Burnley	Liverpool	0	3	A	0.0	1.0

19 rows × 23 columns

Away goal and away conceded goal

```
In [17]:  print(AwayMatch['FTAG'].sum())
          print(AwayMatch['FTHG'].sum())
```

```
39
22
```

Away win

```
In [18]:  filt3 = AwayMatch['FTHG'] < AwayMatch['FTAG']
          AwayWin = AwayMatch[filt3]
          AwayWin
          #print('Liverpool away win: ' + str(len(AwayWin.index)))
```

Out[18]:

	Season	DateTime	HomeTeam	AwayTeam	FTHG	FTAG	FTR	HTHG	HTAG	HT
10438	2020-21	2020-09-20T16:30:00Z	Chelsea	Liverpool	0	2	A	0.0	0.0	
10551	2020-21	2020-12-19T12:30:00Z	Crystal Palace	Liverpool	0	7	A	0.0	3.0	
10618	2020-21	2021-01-28T20:00:00Z	Tottenham	Liverpool	1	3	A	0.0	1.0	
10627	2020-21	2021-01-31T16:30:00Z	West Ham	Liverpool	1	3	A	0.0	0.0	
10680	2020-21	2021-02-28T19:15:00Z	Sheffield United	Liverpool	0	2	A	0.0	0.0	
10709	2020-21	2021-03-15T20:00:00Z	Wolves	Liverpool	0	1	A	0.0	1.0	
10717	2020-21	2021-04-03T20:00:00Z	Arsenal	Liverpool	0	3	A	0.0	0.0	
10775	2020-21	2021-05-13T20:15:00Z	Man United	Liverpool	2	4	A	1.0	2.0	
10782	2020-21	2021-05-16T16:30:00Z	West Brom	Liverpool	1	2	A	1.0	1.0	
10792	2020-21	2021-05-19T20:15:00Z	Burnley	Liverpool	0	3	A	0.0	1.0	

10 rows × 23 columns

Away draw

```
In [19]:  filt4 = AwayMatch['FTHG'] == AwayMatch['FTAG']
          AwayDraw = AwayMatch[filt4]
          AwayDraw
          #print('Liverpool away draw: ' + str(len(AwayDraw.index)))
```

Out[19]:

	Season	DateTime	HomeTeam	AwayTeam	FTHG	FTAG	FTR	HTHG	HTAG	HT
10462	2020-21	2020-10-17T12:30:00Z	Everton	Liverpool	2	2	D	1.0	1.0	
10500	2020-21	2020-11-08T16:30:00Z	Man City	Liverpool	1	1	D	1.0	1.0	
10513	2020-21	2020-11-28T12:30:00Z	Brighton	Liverpool	1	1	D	0.0	0.0	
10538	2020-21	2020-12-13T16:30:00Z	Fulham	Liverpool	1	1	D	1.0	0.0	
10578	2020-21	2020-12-30T20:00:00Z	Newcastle	Liverpool	0	0	D	0.0	0.0	
10739	2020-21	2021-04-19T20:00:00Z	Leeds	Liverpool	1	1	D	0.0	1.0	

6 rows × 23 columns

Away lose

```
In [20]: filt5 = AwayMatch['FTHG'] > AwayMatch['FTAG']
         AwayLose = AwayMatch[filt5]
         AwayLose
         #print('Liverpool away lose: ' + str(len(AwayLose.index)))
```

Out[20]:

	Season	DateTime	HomeTeam	AwayTeam	FTHG	FTAG	FTR	HTHG	HTAG	
10461	2020-21	2020-10-04T19:15:00Z	Aston Villa	Liverpool	7	2	H	4.0	1.0	
10587	2020-21	2021-01-04T20:00:00Z	Southampton	Liverpool	1	0	H	1.0	0.0	
10649	2020-21	2021-02-13T12:30:00Z	Leicester	Liverpool	3	1	H	0.0	0.0	

3 rows × 23 columns

Away corner

```
In [21]: AwayMatch['AC'].sum()
```

Out[21]: 120.0

Away shots

```
In [22]: AwayMatch['AS'].sum()
```

Out[22]: **291.0**

Away foul committed

In [23]: ```python
AwayMatch['AF'].sum()
```

Out[23]: **192.0**

# Away yellow card

In [24]: ```python
HomeMatch['AY'].sum()
```

Out[24]: **27.0**

Away red card

In [25]: ```python
HomeMatch['AR'].sum()
```

Out[25]: **0.0**

# Total match

In [26]: ```python
TotalMatch = pd.concat([HomeMatch, AwayMatch])
TotalMatch
```

Out[26]:

	Season	DateTime	HomeTeam	AwayTeam	FTHG	FTAG	FTR	HTHG	HTAG
10426	2020-21	2020-09-12T17:30:00Z	Liverpool	Leeds	4	3	H	3.0	2.0
10451	2020-21	2020-09-28T20:00:00Z	Liverpool	Arsenal	3	1	H	2.0	1.0
10476	2020-21	2020-10-24T20:00:00Z	Liverpool	Sheffield United	2	1	H	1.0	1.0
10485	2020-21	2020-10-31T17:30:00Z	Liverpool	West Ham	2	1	H	1.0	1.0
10509	2020-21	2020-11-22T19:15:00Z	Liverpool	Leicester	3	0	H	2.0	0.0
10529	2020-21	2020-12-06T19:15:00Z	Liverpool	Wolves	4	0	H	1.0	0.0
10547	2020-21	2020-12-16T20:00:00Z	Liverpool	Tottenham	2	1	H	1.0	1.0
10569	2020-21	2020-12-27T16:30:00Z	Liverpool	West Brom	1	1	D	1.0	0.0
10600	2020-21	2021-01-17T16:30:00Z	Liverpool	Man United	0	0	D	0.0	0.0
10607	2020-21	2021-01-21T20:00:00Z	Liverpool	Burnley	0	1	A	0.0	0.0
10637	2020-21	2021-02-03T20:15:00Z	Liverpool	Brighton	0	1	A	0.0	0.0
10646	2020-21	2021-02-07T16:30:00Z	Liverpool	Man City	1	4	A	0.0	0.0
10664	2020-21	2021-02-20T17:30:00Z	Liverpool	Everton	0	2	A	0.0	1.0
10688	2020-21	2021-03-04T20:15:00Z	Liverpool	Chelsea	0	1	A	0.0	1.0
10694	2020-21	2021-03-07T14:00:00Z	Liverpool	Fulham	0	1	A	0.0	1.0
10726	2020-21	2021-04-10T15:00:00Z	Liverpool	Aston Villa	2	1	H	0.0	1.0
10745	2020-21	2021-04-24T12:30:00Z	Liverpool	Newcastle	1	1	D	1.0	0.0
10765	2020-21	2021-05-08T20:15:00Z	Liverpool	Southampton	2	0	H	1.0	0.0
10799	2020-21	2021-05-23T16:00:00Z	Liverpool	Crystal Palace	2	0	H	1.0	0.0
10438	2020-21	2020-09-20T16:30:00Z	Chelsea	Liverpool	0	2	A	0.0	0.0
10461	2020-21	2020-10-04T19:15:00Z	Aston Villa	Liverpool	7	2	H	4.0	1.0
10462	2020-21	2020-10-17T12:30:00Z	Everton	Liverpool	2	2	D	1.0	1.0

	Season	DateTime	HomeTeam	AwayTeam	FTHG	FTAG	FTR	HTHG	HTAG
10500	2020-21	2020-11-08T16:30:00Z	Man City	Liverpool	1	1	D	1.0	1.0
10513	2020-21	2020-11-28T12:30:00Z	Brighton	Liverpool	1	1	D	0.0	0.0
10538	2020-21	2020-12-13T16:30:00Z	Fulham	Liverpool	1	1	D	1.0	0.0
10551	2020-21	2020-12-19T12:30:00Z	Crystal Palace	Liverpool	0	7	A	0.0	3.0
10578	2020-21	2020-12-30T20:00:00Z	Newcastle	Liverpool	0	0	D	0.0	0.0
10587	2020-21	2021-01-04T20:00:00Z	Southampton	Liverpool	1	0	H	1.0	0.0
10618	2020-21	2021-01-28T20:00:00Z	Tottenham	Liverpool	1	3	A	0.0	1.0
10627	2020-21	2021-01-31T16:30:00Z	West Ham	Liverpool	1	3	A	0.0	0.0
10649	2020-21	2021-02-13T12:30:00Z	Leicester	Liverpool	3	1	H	0.0	0.0
10680	2020-21	2021-02-28T19:15:00Z	Sheffield United	Liverpool	0	2	A	0.0	0.0
10709	2020-21	2021-03-15T20:00:00Z	Wolves	Liverpool	0	1	A	0.0	1.0
10717	2020-21	2021-04-03T20:00:00Z	Arsenal	Liverpool	0	3	A	0.0	0.0
10739	2020-21	2021-04-19T20:00:00Z	Leeds	Liverpool	1	1	D	0.0	1.0
10775	2020-21	2021-05-13T20:15:00Z	Man United	Liverpool	2	4	A	1.0	2.0
10782	2020-21	2021-05-16T16:30:00Z	West Brom	Liverpool	1	2	A	1.0	1.0
10792	2020-21	2021-05-19T20:15:00Z	Burnley	Liverpool	0	3	A	0.0	1.0

38 rows × 23 columns

Total win

```
In [27]:   TotalWin = pd.concat([HomeWin, AwayWin])
           TotalWin
```

Out[27]:

	Season	DateTime	HomeTeam	AwayTeam	FTHG	FTAG	FTR	HTHG	HTAG
10426	2020-21	2020-09-12T17:30:00Z	Liverpool	Leeds	4	3	H	3.0	2.0
10451	2020-21	2020-09-28T20:00:00Z	Liverpool	Arsenal	3	1	H	2.0	1.0
10476	2020-21	2020-10-24T20:00:00Z	Liverpool	Sheffield United	2	1	H	1.0	1.0
10485	2020-21	2020-10-31T17:30:00Z	Liverpool	West Ham	2	1	H	1.0	1.0
10509	2020-21	2020-11-22T19:15:00Z	Liverpool	Leicester	3	0	H	2.0	0.0
10529	2020-21	2020-12-06T19:15:00Z	Liverpool	Wolves	4	0	H	1.0	0.0
10547	2020-21	2020-12-16T20:00:00Z	Liverpool	Tottenham	2	1	H	1.0	1.0
10726	2020-21	2021-04-10T15:00:00Z	Liverpool	Aston Villa	2	1	H	0.0	1.0
10765	2020-21	2021-05-08T20:15:00Z	Liverpool	Southampton	2	0	H	1.0	0.0
10799	2020-21	2021-05-23T16:00:00Z	Liverpool	Crystal Palace	2	0	H	1.0	0.0
10438	2020-21	2020-09-20T16:30:00Z	Chelsea	Liverpool	0	2	A	0.0	0.0
10551	2020-21	2020-12-19T12:30:00Z	Crystal Palace	Liverpool	0	7	A	0.0	3.0
10618	2020-21	2021-01-28T20:00:00Z	Tottenham	Liverpool	1	3	A	0.0	1.0
10627	2020-21	2021-01-31T16:30:00Z	West Ham	Liverpool	1	3	A	0.0	0.0
10680	2020-21	2021-02-28T19:15:00Z	Sheffield United	Liverpool	0	2	A	0.0	0.0
10709	2020-21	2021-03-15T20:00:00Z	Wolves	Liverpool	0	1	A	0.0	1.0
10717	2020-21	2021-04-03T20:00:00Z	Arsenal	Liverpool	0	3	A	0.0	0.0
10775	2020-21	2021-05-13T20:15:00Z	Man United	Liverpool	2	4	A	1.0	2.0
10782	2020-21	2021-05-16T16:30:00Z	West Brom	Liverpool	1	2	A	1.0	1.0
10792	2020-21	2021-05-19T20:15:00Z	Burnley	Liverpool	0	3	A	0.0	1.0

20 rows × 23 columns

Total draw

In [28]:
```
TotalDraw = pd.concat([HomeDraw, AwayDraw])
TotalDraw
```

Out[28]:

	Season	DateTime	HomeTeam	AwayTeam	FTHG	FTAG	FTR	HTHG	HTAG	HT
10569	2020-21	2020-12-27T16:30:00Z	Liverpool	West Brom	1	1	D	1.0	0.0	
10600	2020-21	2021-01-17T16:30:00Z	Liverpool	Man United	0	0	D	0.0	0.0	
10745	2020-21	2021-04-24T12:30:00Z	Liverpool	Newcastle	1	1	D	1.0	0.0	
10462	2020-21	2020-10-17T12:30:00Z	Everton	Liverpool	2	2	D	1.0	1.0	
10500	2020-21	2020-11-08T16:30:00Z	Man City	Liverpool	1	1	D	1.0	1.0	
10513	2020-21	2020-11-28T12:30:00Z	Brighton	Liverpool	1	1	D	0.0	0.0	
10538	2020-21	2020-12-13T16:30:00Z	Fulham	Liverpool	1	1	D	1.0	0.0	
10578	2020-21	2020-12-30T20:00:00Z	Newcastle	Liverpool	0	0	D	0.0	0.0	
10739	2020-21	2021-04-19T20:00:00Z	Leeds	Liverpool	1	1	D	0.0	1.0	

9 rows × 23 columns

Total lose

In [29]:
```
TotalLose = pd.concat([HomeLose, AwayLose])
TotalLose
```

Out[29]:

	Season	DateTime	HomeTeam	AwayTeam	FTHG	FTAG	FTR	HTHG	HTAG
10607	2020-21	2021-01-21T20:00:00Z	Liverpool	Burnley	0	1	A	0.0	0.0
10637	2020-21	2021-02-03T20:15:00Z	Liverpool	Brighton	0	1	A	0.0	0.0
10646	2020-21	2021-02-07T16:30:00Z	Liverpool	Man City	1	4	A	0.0	0.0
10664	2020-21	2021-02-20T17:30:00Z	Liverpool	Everton	0	2	A	0.0	1.0
10688	2020-21	2021-03-04T20:15:00Z	Liverpool	Chelsea	0	1	A	0.0	1.0
10694	2020-21	2021-03-07T14:00:00Z	Liverpool	Fulham	0	1	A	0.0	1.0
10461	2020-21	2020-10-04T19:15:00Z	Aston Villa	Liverpool	7	2	H	4.0	1.0
10587	2020-21	2021-01-04T20:00:00Z	Southampton	Liverpool	1	0	H	1.0	0.0
10649	2020-21	2021-02-13T12:30:00Z	Leicester	Liverpool	3	1	H	0.0	0.0

9 rows × 23 columns

Total goal and total conceded goal

In [30]:
```python
print(HomeMatch['FTHG'].sum() + AwayMatch['FTAG'].sum())
```
68

In [31]:
```python
print(HomeMatch['FTAG'].sum() + AwayMatch['FTHG'].sum())
```
42

Total point

In [32]:
```python
winPoint = len(TotalWin.index) * 3
winPoint

drawPoint = len(TotalDraw.index)
drawPoint

totalPoint = winPoint + drawPoint
totalPoint
```

Out[32]: 69

Total corner

```
In [33]: print(HomeMatch['HC'].sum() + AwayMatch['AC'].sum())
```

```
260.0
```

Total shots

```
In [34]: print(HomeMatch['HS'].sum() + AwayMatch['AS'].sum())
```

```
608.0
```

Total foul committed

```
In [35]: print(HomeMatch['HF'].sum() + AwayMatch['AF'].sum())
```

```
396.0
```

Total yellow card

```
In [36]: print(HomeMatch['HY'].sum() + HomeMatch['AY'].sum())
```

```
48.0
```
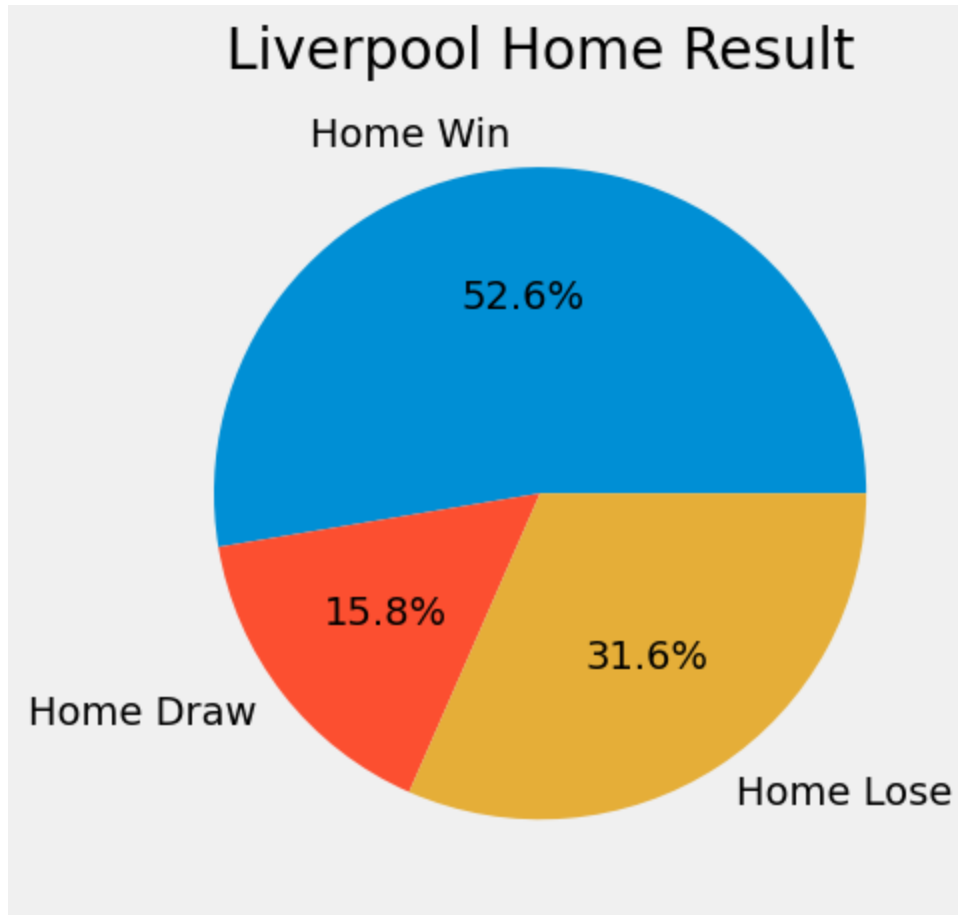
Total red card

```
In [37]: print(HomeMatch['HR'].sum() + HomeMatch['AR'].sum())
```

```
0.0
```

Data visualization

```
In [50]: home_result = []
         home_labels = []

         home_result.append(len(HomeWin.index))
         home_result.append(len(HomeDraw.index))
         home_result.append(len(HomeLose.index))
         print(home_result)

         home_labels.append("Home Win")
         home_labels.append("Home Draw")
         home_labels.append("Home Lose")
         print(home_labels)
```

```
[10, 3, 6]
['Home Win', 'Home Draw', 'Home Lose']
```

In [52]:
```python
plt.style.use("fivethirtyeight")
plt.pie(home_result, labels=home_labels, autopct='%1.1f%%')

plt.title("Liverpool Home Result")
plt.tight_layout()
```

Liverpool Home Result

Home Win

52.6%

15.8%

31.6%

Home Draw

Home Lose

In [53]:
```python
away_result = []
away_labels = []

away_result.append(len(AwayWin.index))
away_result.append(len(AwayDraw.index))
away_result.append(len(AwayLose.index))
print(away_result)

away_labels.append("Away Win")
away_labels.append("Away Draw")
away_labels.append("Away Lose")
print(away_labels)
```

```
[10, 6, 3]
['Away Win', 'Away Draw', 'Away Lose']
```

In [54]:
```python
plt.style.use("fivethirtyeight")
plt.pie(away_result, labels=away_labels, autopct='%1.1f%%')

plt.title("Liverpool Away Result")
plt.tight_layout()
```

Liverpool Away Result