In [1]:
```
import pandas as pd
```

In [2]:
```
df = pd.read_csv("C:/Users/jain/Desktop/Rinkeby_FinalityTime.csv")
df.head()
```

Out[2]:

	Transaction Hash	Time Taken
0	0xd68c903b080f05f816024e36fc379091b887f49d1509...	8
1	0x699ab2d69c5af1446588a15e03c8642e567a73d4b454...	21
2	0xce8d0422c7cc4bb3897f69ff552de69518cbac970e44...	19
3	0xbaec6daf34cb241393fdd82cb167e0d0c0fe664b6a99...	11
4	0xd93c7b2c8b2d29d79eab92c0665aab91d78758acfaab...	19

In [3]:
```
df.shape
```

Out[3]:
```
(186, 2)
```

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

Out[4]:

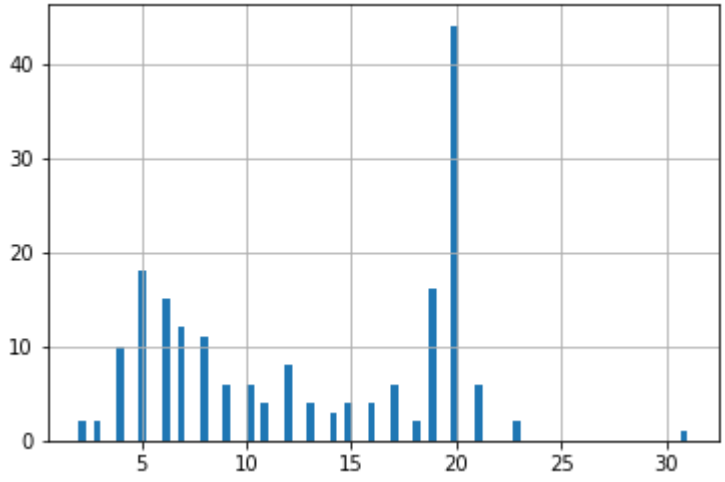
	Time Taken
count	186.000000
mean	12.897849
std	6.517776
min	2.000000
25%	6.250000
50%	12.000000
75%	20.000000
max	31.000000

In [5]:
```
count = df['Time Taken'].value_counts(sort=False)
print(count)
```

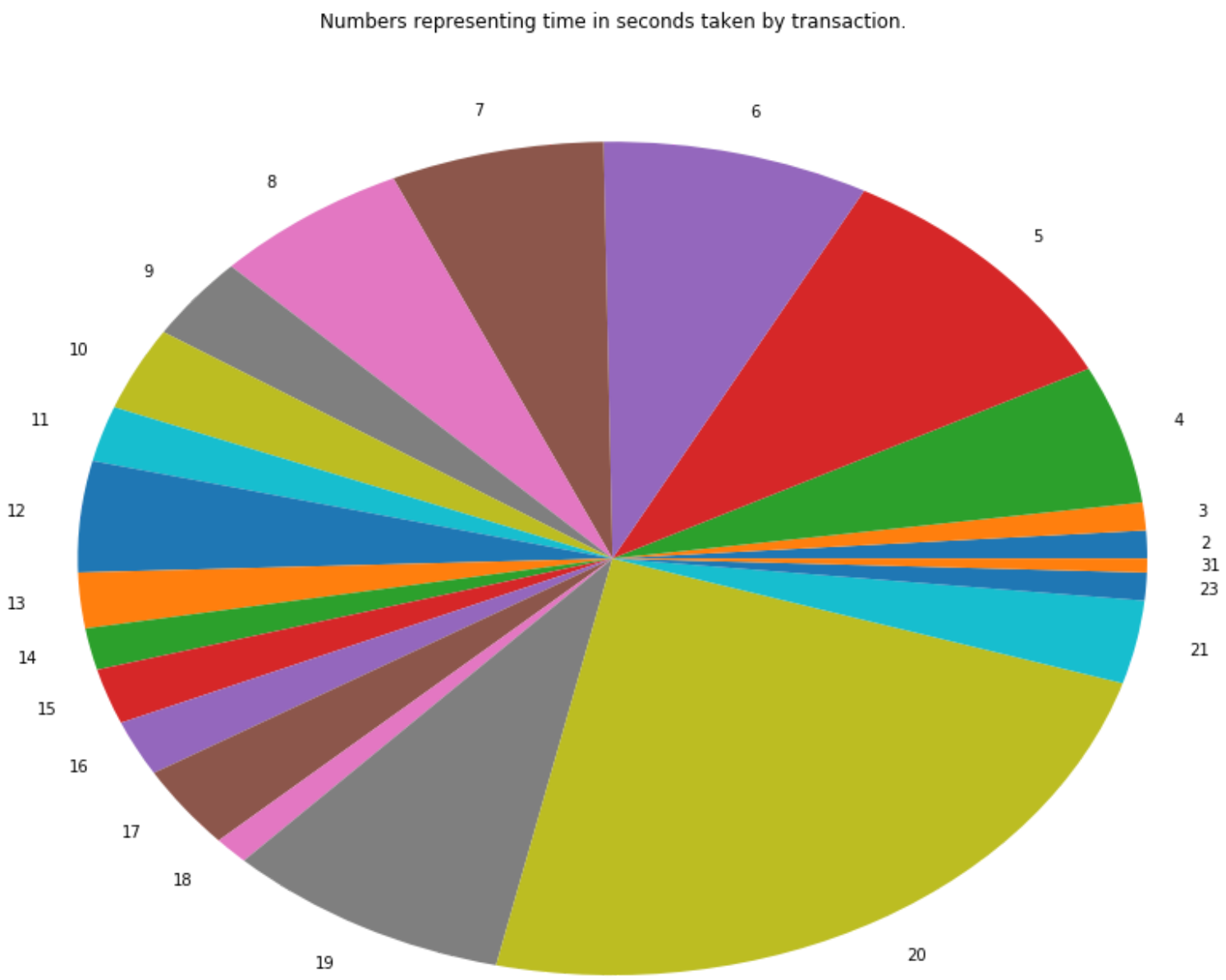
```
2      2
3      2
4     10
5     18
6     15
7     12
8     11
9      6
10     6
11     4
12     8
13     4
14     3
15     4
16     4
17     6
18     2
19    16
20    44
21     6
23     2
31     1
Name: Time Taken, dtype: int64
```

In [7]:
```
import matplotlib.pyplot as plt
df['Time Taken'].hist(bins=80)
```

Out[7]:
```
<matplotlib.axes._subplots.AxesSubplot at 0x1c5c13f6b38>
```



In [10]:
```
import matplotlib.pyplot as plt
fig = plt.figure(figsize =(15, 12))
plt.title('Numbers representing time in seconds taken by transaction.')
plt.pie(count.values, labels = count.index)
plt.show()
```


Numbers representing time in seconds taken by transaction.
7
6
8
5
9
4
10
3
11
2
12
31
23
13
21
14
15
16
17
18
20
19

As per the analysis from above data, we inferred that majority of transactions has a finality time of below 20 seconds. There are only 9 transactions who crosses the time of above 20 seconds out of 186 transactions.So, overall standard deviation is not high and mean value is 12.8. And hence, the finality time approximate value is 90sec. (Mean + std deviation + considerable transactions having time above 20 seconds (max value is 30 seconds) + outliers consideration.)