In [1]:
```
import numpy as np
array=np.random.randint(1,100,16) # randomly generate 16 numbers between 1 to 106
array
```

Out[1]:
```
array([20, 18, 21, 85, 14,  9, 40, 12, 63, 85, 31, 84, 34, 23, 31, 13])
```

In [2]:
```
array.mean()
```

Out[2]:
```
36.4375
```

In [3]:
```
np.percentile(array,25)
```

Out[3]:
```
17.0
```

In [4]:
```
np.percentile(array,50)
```

Out[4]:
```
27.0
```

In [5]:
```
np.percentile(array,75)
```

Out[5]:
```
45.75
```

In [6]:
```
np.percentile(array,100)
```

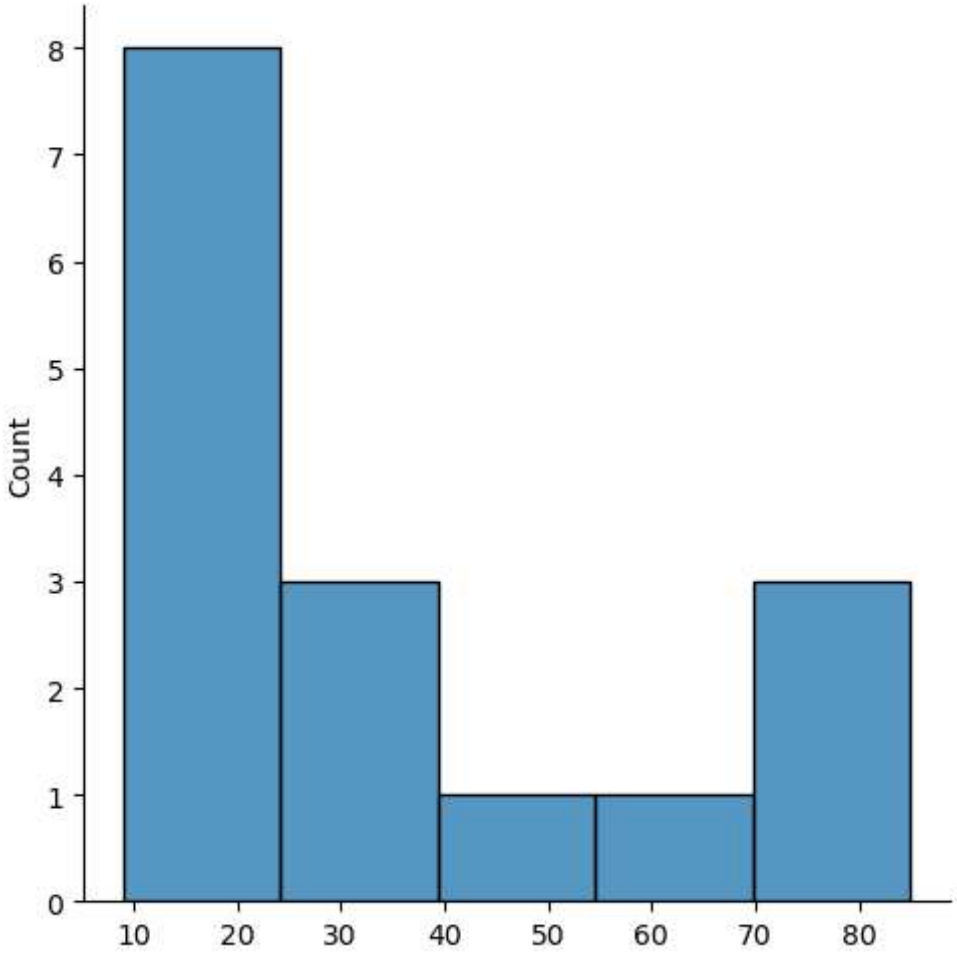
Out[6]:
```
85.0
```

In [7]:
```
def outDetection(array):
    sorted(array)
    Q1,Q3=np.percentile(array,[25,75])
    IQR=Q3-Q1
    lr=Q1-(1.5*IQR)
    ur=Q3+(1.5*IQR)
    return lr,ur
lr,ur=outDetection(array)
lr,ur
```

Out[7]:
```
(-26.125, 88.875)
```

In [9]:
```
import seaborn as sns
%matplotlib inline
sns.displot(array)
```

Out[9]:
```
<seaborn.axisgrid.FacetGrid at 0x230d9feae90>
```



In [ ]: