In [1]:
```
from scipy import stats
sigma = (7.769-2.639)/3
```

In [2]:
```
sigma
```

Out[2]:
```
1.7100000000000002
```

In [3]:
```
df = (((7.77-2.64)/3)**2)/(((7.77/3)**2/9)+((-2.64/3)**2/24))
```

In [4]:
```
df
```

Out[4]:
```
3.760362934914624
```

In [15]:
```
df = 3 # ปัด df ขึ้นเป็น 4
```

In [16]:
```
left = (df*1.710)/stats.chi2.isf(0.05/2,df)
right = (df*1.710)/stats.chi2.isf(1-(0.05/2),df)
```

In [17]:
```
left
```

Out[17]:
```
0.5487567949604475
```

In [19]:
```
right
```

Out[19]:
```
23.772530787621047
```

In [20]:
```
print('interval is',[left,right])
```

```
interval is [0.5487567949604475, 23.772530787621047]
```

Variance Component ของ batch(supplier) = 1.71 & 95 c.i. คือ (0.549, 23.77)