

$$\Delta = 1.6932$$

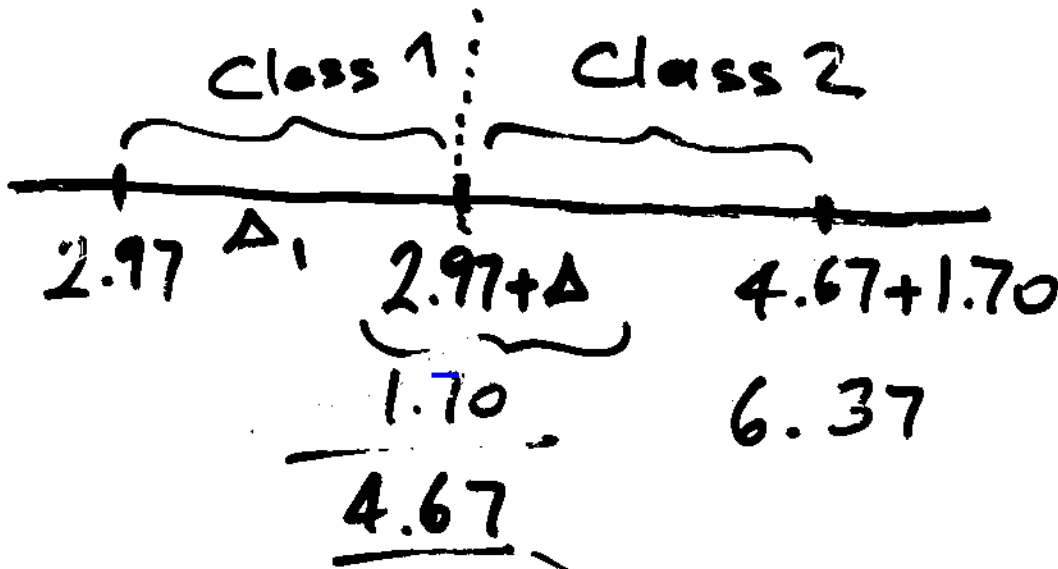
$$\Delta = 1.695 \text{ (1)}$$

$$\Delta_r = 1.69$$

$$\Delta_r = 1.70$$

Calculating the class limits and the boundaries for the 1st and the 2nd subgroup.

$$X(1) = 2.97$$

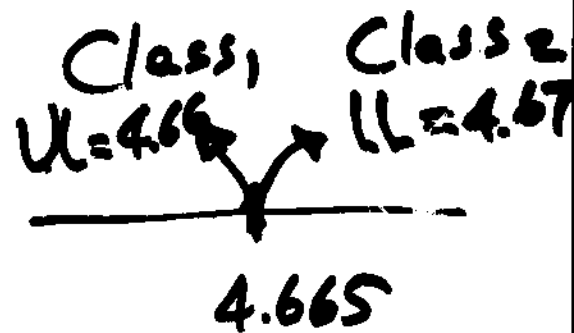


Lower class = 4.67, $UCL_1 = 4.66$
Limit

for class 2

$$Lb_{\text{Class } 2} = 4.665$$

$$Ub_{\text{Class } 1} = 4.665$$



$$x_{(1)} = 2.97 = LCL_1$$

L2

$$\Delta = 1.70$$

$$LCL_2 = 2.97 + 1.70 = 4.67$$

$$UCL_1 = 4.66$$

$$UC \text{ Boundary}_1 = UC \text{ Boundary}_2 = \frac{4.67 + 4.66}{2}$$

$$UCB_1 = 4.665$$

For class 2

Calculate density:

$$D_2 = \frac{Rf_2}{A_2} = \frac{0.0556}{1.70}$$

Travelers going from Auburn to Birmingham

Type 1

Type 2

Auburn
Montgomery
Birmingham

Auburn
Birmingham

2.5 - 3 hrs

1:45 min - 2:00 min

