**2.6 Excel Instructions**

**Use Home Sales Data from 2.5**

1. **Compute Range in Excel using MAX and MIN**
   1. For Range type Formula = MAX(B2:B13)-MIN(B2:B13)
2. **Compute Variance**
   1. **Formula: =**VAR.S(B2:B13)
3. **Compute SD**
   1. **Formula: =**STDEV.S(B2:B13)
4. **Compute Coefficient of Variation**
   1. **Formula: =**E9/E2 = Standard Deviation / Mean Average

**2.7 Excel Instructions**

1. **Compute 85th Percentile**
   1. **Formula: =**PERCENTILE.EXC(B2:B13,0.85)
2. **Compute 1st Quartile**
   1. **Formula:** =QUARTILE.EXC(B2:B13, 1)
3. **Compute 2nd Quartile**
   1. **Formula:** =QUARTILE.EXC(B2:B13, 2)
4. **Compute 3rd Quartile**
   1. **Formula:** =QUARTILE.EXC(B2:B13, 3)
5. **Compute IQR**
   1. **Formula:** =E17-E15 = 3rd Quartile – 1st Quartile
6. **Compute a Z-Score Column**
   1. Z-Score in C2 =
      1. **Formula:** =STANDARDIZE(B2, $E$2, $E$10) – uses mean and SD

**Create Box Plots using HomeSales Data**

1. Select B1:B13
2. Click Insert Tab
3. Insert Statistic Chart
4. Choose Box and Whisker

**Create Box Plots using the HomeSales Comparison Data**

1. Select B1:F11
2. Click Insert
3. Insert Statistic Chart
4. Choose Box and Whisker Chart