**ANOVA: Test For Equality of Populations**

**11.3**

 A.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Source** | **df** | **SS** | **MS** | **F** |
| Among groups | 4 | 60 | 15 | 3.00 |
| Within groups | 30 | 150 | 5 |  |
| Total | 34 | 210 |  |  |

 B. *F*0.05, 4, 30 = 2.69

 C. If *F* > 2.69, reject *H*0.

 D. Since *F* = 3.00 is greater than 2.69, reject *H*0.

**11.5**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Source** | **df** | **SS** | **MS** | **F** |
| Among groups | 4 – 1 =3 | (80) (3) = 240 | 80 | 80/20 = 4 |
| Within groups | 32 – 4 = 28 | 560 | 560/28 = 20 |  |
| Total | 32 – 1 = 31 | 240 + 560 = 800 |  |  |