Table 5: Table Showing Mean, S.D of English Medium Boys:

<table>
<thead>
<tr>
<th>C.I</th>
<th>f</th>
<th>d</th>
<th>fd</th>
<th>fd^2</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-2</td>
<td>0</td>
<td>-4</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>3-4</td>
<td>2</td>
<td>-3</td>
<td>-6</td>
<td>18</td>
</tr>
<tr>
<td>5-6</td>
<td>15</td>
<td>-2</td>
<td>-30</td>
<td>60</td>
</tr>
<tr>
<td>7-8</td>
<td>32</td>
<td>-1</td>
<td>-32 (-68)</td>
<td>32</td>
</tr>
<tr>
<td>9-10</td>
<td>50</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>11-12</td>
<td>61</td>
<td>1</td>
<td>61</td>
<td>61</td>
</tr>
<tr>
<td>13-14</td>
<td>63</td>
<td>2</td>
<td>126</td>
<td>252</td>
</tr>
<tr>
<td>15-16</td>
<td>26</td>
<td>3</td>
<td>78</td>
<td>234</td>
</tr>
<tr>
<td>17-18</td>
<td>7</td>
<td>4</td>
<td>28</td>
<td>112</td>
</tr>
<tr>
<td>19-20</td>
<td>5</td>
<td>5</td>
<td>25 (318)</td>
<td>125</td>
</tr>
<tr>
<td>N=261</td>
<td>Σ fd =250</td>
<td>Σ fd^2 =894</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

\[
\text{Mean} = AM + \frac{\sum fd}{N} \times i
\]

\[
\text{Mean} = 9.5 + \frac{250}{261} \times 2
\]

\[
\text{Mean} = 9.5 + 0.95 \times 2
\]

\[
\text{Mean} = 9.5 + 1.9
\]

\[
\text{Mean} = 11.4
\]
\[
\delta = i \sqrt{\frac{\sum fd^2}{N} - \left(\frac{\sum fd}{N}\right)^2}
\]

\[
\delta = 2 \sqrt{\frac{894}{261} - \left(\frac{250}{261}\right)}
\]

\[
\delta = 2\sqrt{3.42} - 0.90
\]

\[
\delta = 2\times 1.52
\]

\[
\delta = 2\times 1.58
\]

\[
S.D = 3.16
\]

**Interpretation:-**

It is evident from table no 5 that Mean of Anxiety score of English medium Boys is 11.4 which falls in Average range.
Table 6: Table Showing Mean, S.D of English Medium Girls:

<table>
<thead>
<tr>
<th>C.I</th>
<th>f</th>
<th>d</th>
<th>fd</th>
<th>fd^2</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-2</td>
<td>0</td>
<td>-4</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>3-4</td>
<td>2</td>
<td>-3</td>
<td>-6</td>
<td>18</td>
</tr>
<tr>
<td>5-6</td>
<td>7</td>
<td>-2</td>
<td>-14</td>
<td>28</td>
</tr>
<tr>
<td>7-8</td>
<td>17</td>
<td>-1</td>
<td>-17</td>
<td>17</td>
</tr>
<tr>
<td>9-10</td>
<td>31</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>11-12</td>
<td>29</td>
<td>1</td>
<td>29</td>
<td>29</td>
</tr>
<tr>
<td>13-14</td>
<td>42</td>
<td>2</td>
<td>84</td>
<td>168</td>
</tr>
<tr>
<td>15-16</td>
<td>18</td>
<td>3</td>
<td>54</td>
<td>162</td>
</tr>
<tr>
<td>17-18</td>
<td>4</td>
<td>4</td>
<td>16</td>
<td>64</td>
</tr>
<tr>
<td>19-20</td>
<td>3</td>
<td>5</td>
<td>15</td>
<td>75</td>
</tr>
<tr>
<td>N=153</td>
<td></td>
<td></td>
<td>Σfd=161</td>
<td>Σfd^2=561</td>
</tr>
</tbody>
</table>

\[
Mean = AM + \frac{\sum fd}{N} \times i
\]

\[
Mean = 9.5 + \frac{161}{153} \times 2
\]

\[
Mean = 9.5 + 1.05 \times 2
\]

\[
Mean = 9.5 + 2.10
\]

\[
Mean = 11.6
\]
\[ \delta = \sqrt{\frac{\sum fd^2}{N} - \left( \frac{\sum fd}{N} \right)^2} \]

\[ \delta = 2\sqrt{\frac{561}{153} - \left( \frac{161}{153} \right)^2} \]

\[ \delta = 2\sqrt{3.6 - 1.10} \]

\[ \delta = 2\sqrt{2.5} \]

\[ \delta = 2 \times 1.58 \]

\[ S.D = 3.16 \]

**Interpretation:-**

It is evident from table no 6 that the Mean of Anxiety score of English medium girls is 11.6 which falls in average range.
Table 7: Table Showing Mean, S.D of English Medium Boys and Girls:-

<table>
<thead>
<tr>
<th>C.I</th>
<th>f</th>
<th>d</th>
<th>fd</th>
<th>fd^2</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-2</td>
<td>0</td>
<td>-4</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>3-4</td>
<td>4</td>
<td>-3</td>
<td>-12</td>
<td>36</td>
</tr>
<tr>
<td>5-6</td>
<td>22</td>
<td>-2</td>
<td>-44</td>
<td>88</td>
</tr>
<tr>
<td>7-8</td>
<td>49</td>
<td>-1</td>
<td>-49</td>
<td>-105</td>
</tr>
<tr>
<td>9-10</td>
<td>81</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>11-12</td>
<td>90</td>
<td>1</td>
<td>90</td>
<td>90</td>
</tr>
<tr>
<td>13-14</td>
<td>105</td>
<td>2</td>
<td>210</td>
<td>420</td>
</tr>
<tr>
<td>15-16</td>
<td>44</td>
<td>3</td>
<td>132</td>
<td>396</td>
</tr>
<tr>
<td>17-18</td>
<td>11</td>
<td>4</td>
<td>44</td>
<td>176</td>
</tr>
<tr>
<td>19-20</td>
<td>8</td>
<td>5</td>
<td>40</td>
<td>200</td>
</tr>
</tbody>
</table>

N=414 \[\Sigma fd = 411\] \[\Sigma fd^2 = 1455\]

Mean_{BU} = AM + \left(\frac{\Sigma fd}{N}\right) \times i

Mean = 9.5 + \frac{411}{414} \times 2

Mean = 9.5 + 0.99 \times 2

Mean = 9.5 + 1.98

Mean = 11.5
\[
\delta = \sqrt{\frac{\sum fd^2}{N}} = \left( \frac{\sum fd}{N} \right)^2
\]

\[
\delta = 2\sqrt{\frac{1455}{414} - 0.98}
\]

\[
\delta = 2\sqrt{3.15 - 0.98}
\]

\[
\delta = 2\sqrt{2.53}
\]

\[
S.D = 2 \times 1.59
\]

\[
SD = 3.18
\]

**Interpretation:**

It is evident from table no 6 that the Mean of Anxiety score of English medium Boys and Girls is 11.5 which fall in average range.
### Table 8: Table Showing Mean, S.D of Urdu Medium Boys:

<table>
<thead>
<tr>
<th>C.I</th>
<th>f</th>
<th>d</th>
<th>fd</th>
<th>fd²</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-2</td>
<td>0</td>
<td>-4</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>3-4</td>
<td>1</td>
<td>-3</td>
<td>-3</td>
<td>9</td>
</tr>
<tr>
<td>5-6</td>
<td>12</td>
<td>-2</td>
<td>-24</td>
<td>48</td>
</tr>
<tr>
<td>7-8</td>
<td>26</td>
<td>-1</td>
<td>-26,53</td>
<td>26</td>
</tr>
<tr>
<td>9-10</td>
<td>54</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>11-12</td>
<td>63</td>
<td>1</td>
<td>63</td>
<td>63</td>
</tr>
<tr>
<td>13-14</td>
<td>54</td>
<td>2</td>
<td>108</td>
<td>216</td>
</tr>
<tr>
<td>15-16</td>
<td>44</td>
<td>3</td>
<td>132</td>
<td>396</td>
</tr>
<tr>
<td>17-18</td>
<td>19</td>
<td>4</td>
<td>76</td>
<td>304</td>
</tr>
<tr>
<td>19-20</td>
<td>2</td>
<td>5</td>
<td>10,389</td>
<td>50</td>
</tr>
<tr>
<td>N=275</td>
<td>Σfd =336</td>
<td>Σfd²=1112</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

\[
\text{Mean} = AM + \frac{\sum fd}{N} \times i
\]

\[
\text{Mean} = 9.5 + \frac{336}{275} \times 2
\]

\[
\text{Mean} = 9.5 + 1.22 \times 2
\]

\[
\text{Mean} = 9.5 + 2.44
\]

\[
\text{Mean} = 10.72
\]
\[ \delta = i \sqrt{\frac{\sum fd^2}{N} - \left(\frac{\sum fd}{N}\right)^2} \]

\[ \delta = 2 \sqrt{\frac{1112}{275} - 1.5} \]

\[ \delta = 2\sqrt{4.043 - 1.5} \]

\[ \delta = 2\sqrt{2.543} \]

\[ SD_{BU} = 2 \times 1.59 \]

\[ S.D = 3.18 \]

**Interpretation:**

It is evident from table no 8 that the mean of Anxiety score of Urdu medium boys is 10.72 which falls in normal range.
Table 9: Table Showing Mean, S.D of Urdu Medium Girls:

<table>
<thead>
<tr>
<th>C.I</th>
<th>f</th>
<th>d</th>
<th>fd</th>
<th>fd^2</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-2</td>
<td>0</td>
<td>-4</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>3-4</td>
<td>0</td>
<td>-3</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>5-6</td>
<td>5</td>
<td>-2</td>
<td>-10</td>
<td>20</td>
</tr>
<tr>
<td>7-8</td>
<td>17</td>
<td>-1</td>
<td>-17</td>
<td>27</td>
</tr>
<tr>
<td>9-10</td>
<td>61</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>11-12</td>
<td>93</td>
<td>1</td>
<td>93</td>
<td>93</td>
</tr>
<tr>
<td>13-14</td>
<td>98</td>
<td>2</td>
<td>196</td>
<td>392</td>
</tr>
<tr>
<td>15-16</td>
<td>96</td>
<td>3</td>
<td>288</td>
<td>864</td>
</tr>
<tr>
<td>17-18</td>
<td>19</td>
<td>4</td>
<td>76</td>
<td>304</td>
</tr>
<tr>
<td>19-20</td>
<td>0</td>
<td>5</td>
<td>0</td>
<td>653</td>
</tr>
<tr>
<td>N=389</td>
<td></td>
<td></td>
<td>Σfd =61</td>
<td>Σfd^2=1690</td>
</tr>
</tbody>
</table>

\[
\text{Mean} = AM + \frac{\sum fd}{N} \times i
\]

\[
\text{Mean} = 9.5 + \frac{626}{389} \times 2
\]

\[
\text{Mean} = 9.5 + 1.61 \times 2
\]

\[
\text{Mean} = 9.5 + 3.22
\]

\[
\text{Mean} = 12.72
\]
\[ \delta = \sqrt{\frac{\sum fd^2}{N} - \left( \frac{\sum fd}{N} \right)^2} \]
\[ \delta = 2 \sqrt{\frac{1690}{389} - \left( \frac{626}{389} \right)^2} \]
\[ \delta = 2\sqrt{4.34 - 2.60} \]
\[ \delta = 2\sqrt{1.74} \]
\[ S.D = 2 \times 1.31 \]
\[ SD = 2.62 \]

**Interpretation:-**

It is evident from table no of 9 that the mean of Anxiety scores of Urdu medium girls is 12.72 which falls in above average range.
Table 10: Table Showing Mean, S.D of Urdu Medium Boys & Girls:

<table>
<thead>
<tr>
<th>C.I</th>
<th>f</th>
<th>d</th>
<th>fd</th>
<th>fd²</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-2</td>
<td>0</td>
<td>-4</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>3-4</td>
<td>1</td>
<td>-3</td>
<td>-3</td>
<td>9</td>
</tr>
<tr>
<td>5-6</td>
<td>17</td>
<td>-2</td>
<td>-34</td>
<td>68</td>
</tr>
<tr>
<td>7-8</td>
<td>42</td>
<td>-1</td>
<td>-42</td>
<td>42</td>
</tr>
<tr>
<td>9-10</td>
<td>113</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>11-12</td>
<td>149</td>
<td>1</td>
<td>149</td>
<td>149</td>
</tr>
<tr>
<td>13-14</td>
<td>161</td>
<td>2</td>
<td>322</td>
<td>644</td>
</tr>
<tr>
<td>15-16</td>
<td>141</td>
<td>3</td>
<td>423</td>
<td>1269</td>
</tr>
<tr>
<td>17-18</td>
<td>38</td>
<td>4</td>
<td>152</td>
<td>608</td>
</tr>
<tr>
<td>19-20</td>
<td>2</td>
<td>5</td>
<td>0</td>
<td>1056</td>
</tr>
<tr>
<td></td>
<td>N=664</td>
<td>Σfd =977</td>
<td>Σfd²=2839</td>
<td></td>
</tr>
</tbody>
</table>

\[
\text{Mean} = AM + \frac{\sum fd}{N} \times i
\]

\[
\text{Mean} = 9.5 + \frac{977}{664} \times 2
\]

\[
\text{Mean} = 9.5 + 1.47 \times 2
\]

\[
\text{Mean} = 9.5 + 2.94
\]

\[
\text{Mean} = 12.44
\]
\[ \delta = i \sqrt{\frac{\sum fd^2}{N} - \left( \frac{\sum fd}{N} \right)^2} \]

\[ \delta = 2 \sqrt{\frac{2839}{664} - \left( \frac{977}{664} \right)^2} \]

\[ \delta = 2\sqrt{4.27} - 2.16 \]

\[ \delta = 2\sqrt{2.11} \]

\[ S.D = 2 \times 1.45 \]

\[ SD = 2.90 \]

**Interpretation:-**

It is evident from table no 10 that the mean of Anxiety score of Urdu medium boys and girls is 12.44 which falls in slightly above average range.
Table 11: Table Showing Mean, S.D of All Boys:

<table>
<thead>
<tr>
<th>C.I</th>
<th>f</th>
<th>d</th>
<th>fd</th>
<th>fd²</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-2</td>
<td>0</td>
<td>-4</td>
<td>00</td>
<td>0</td>
</tr>
<tr>
<td>3-4</td>
<td>3</td>
<td>-3</td>
<td>-9</td>
<td>27</td>
</tr>
<tr>
<td>5-6</td>
<td>17</td>
<td>-2</td>
<td>-34</td>
<td>68</td>
</tr>
<tr>
<td>7-8</td>
<td>38</td>
<td>-1</td>
<td>-38.81</td>
<td>38</td>
</tr>
<tr>
<td>9-10</td>
<td>94</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>11-12</td>
<td>104</td>
<td>1</td>
<td>104</td>
<td>104</td>
</tr>
<tr>
<td>13-14</td>
<td>201</td>
<td>2</td>
<td>402</td>
<td>804</td>
</tr>
<tr>
<td>15-16</td>
<td>60</td>
<td>3</td>
<td>180</td>
<td>540</td>
</tr>
<tr>
<td>17-18</td>
<td>12</td>
<td>4</td>
<td>48</td>
<td>192</td>
</tr>
<tr>
<td>19-20</td>
<td>7</td>
<td>5</td>
<td>35</td>
<td>175</td>
</tr>
<tr>
<td></td>
<td>N=536</td>
<td>Σfd=688</td>
<td>Σfd²=1948</td>
<td></td>
</tr>
</tbody>
</table>

\[
Mean = AM + \frac{\Sigma fd}{N} \times i
\]

\[
Mean = 9.5 + \frac{6.88}{536} \times 2
\]

\[
Mean = 9.5 + 1.28 \times 2
\]

\[
Mean = 9.5 + 2.56
\]

\[
Mean = 12.06
\]
\[
\delta = \sqrt{\frac{\sum fd^2}{N} - \left( \frac{\sum fd}{N} \right)^2}
\]

\[
\delta = 2 \sqrt{\frac{1948}{536} - \left( \frac{688}{536} \right)^2}
\]

\[
\delta = 2\sqrt{3.63 - 1.63}
\]

\[
\delta = 2\sqrt{2}
\]

\[S.D = 2 \times 1.41\]

\[SD = 2.82\]

**Interpretation:-**

It is evident from table no 11 that the mean of Anxiety score of all boys students is 12.06 which fall in Average range.
### Table 12: Table Showing Mean, S.D of All Girls:

<table>
<thead>
<tr>
<th>C.I</th>
<th>f</th>
<th>d</th>
<th>fd</th>
<th>fd^2</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-2</td>
<td>0</td>
<td>-4</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>3-4</td>
<td>2</td>
<td>-3</td>
<td>-6</td>
<td>18</td>
</tr>
<tr>
<td>5-6</td>
<td>12</td>
<td>-2</td>
<td>-24</td>
<td>48</td>
</tr>
<tr>
<td>7-8</td>
<td>34</td>
<td>-1</td>
<td>-34</td>
<td>34</td>
</tr>
<tr>
<td>9-10</td>
<td>92</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>11-12</td>
<td>112</td>
<td>1</td>
<td>112</td>
<td>112</td>
</tr>
<tr>
<td>13-14</td>
<td>130</td>
<td>2</td>
<td>260</td>
<td>520</td>
</tr>
<tr>
<td>15-16</td>
<td>134</td>
<td>3</td>
<td>402</td>
<td>1206</td>
</tr>
<tr>
<td>17-18</td>
<td>23</td>
<td>4</td>
<td>62</td>
<td>368</td>
</tr>
<tr>
<td>19-20</td>
<td>3</td>
<td>5</td>
<td>15</td>
<td>817</td>
</tr>
<tr>
<td></td>
<td>N=542</td>
<td>Σfd =817</td>
<td>Σfd^2 =1455</td>
<td></td>
</tr>
</tbody>
</table>

\[
\text{Mean} = AM + \frac{\Sigma fd}{N} \times i
\]

\[
\text{Mean} = 9.5 + \frac{817}{414} \times 2
\]

\[
\text{Mean} = 9.5 + 1.50 \times 2
\]

\[
\text{Mean} = 9.5 + 3
\]

\[
\text{Mean} = 12.51
\]
\[ \delta = \sqrt{\frac{\sum fd^2}{N} - \left(\frac{\sum fd}{N}\right)^2} \]

\[ \delta = 2\sqrt{\frac{2381}{542}} - 2.25 \]

\[ \delta = 2\sqrt{4.39} - 2.25 \]

\[ \delta = 2\sqrt{2.14} \]

\[ S.D = 2\times1.46 \]

\[ SD = 2.92 \]

**Interpretation:**

It is evident from table no 12 that the mean Anxiety score of All girls students is 12.51 which falls in slightly above average range.
### Table 13: Table Showing Mean, S.D of All Students:

<table>
<thead>
<tr>
<th>C.I</th>
<th>f</th>
<th>d</th>
<th>fd</th>
<th>fd^2</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-2</td>
<td>0</td>
<td>-4</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>3-4</td>
<td>5</td>
<td>-3</td>
<td>-15</td>
<td>45</td>
</tr>
<tr>
<td>5-6</td>
<td>29</td>
<td>-2</td>
<td>-58</td>
<td>116</td>
</tr>
<tr>
<td>7-8</td>
<td>72</td>
<td>-1</td>
<td>-72</td>
<td>72</td>
</tr>
<tr>
<td>9-10</td>
<td>186</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>11-12</td>
<td>216</td>
<td>1</td>
<td>216</td>
<td>216</td>
</tr>
<tr>
<td>13-14</td>
<td>331</td>
<td>2</td>
<td>662</td>
<td>1324</td>
</tr>
<tr>
<td>15-16</td>
<td>194</td>
<td>3</td>
<td>582</td>
<td>1746</td>
</tr>
<tr>
<td>17-18</td>
<td>35</td>
<td>4</td>
<td>140</td>
<td>560</td>
</tr>
<tr>
<td>19-20</td>
<td>10</td>
<td>5</td>
<td>50</td>
<td>250</td>
</tr>
</tbody>
</table>

\[
N = 1078 \\
\Sigma fd = 1505 \\
\Sigma fd^2 = 4329
\]

\[
Mean = AM \ + \ \frac{\Sigma fd}{N} \times i
\]

\[
Mean = 9.5 \ + \ \frac{1505}{1078} \times 2
\]

\[
Mean = 9.5 + 1.9 \times 2
\]

\[
Mean = 9.5 + 2.78
\]

\[
Mean = 12.28
\]
\[
\delta = i \sqrt{\frac{\sum fd^2}{N} - \left(\frac{\sum fd}{N}\right)^2}
\]

\[
\delta = 2 \sqrt{\frac{4329}{1078} - \left(\frac{1505}{1078}\right)^2}
\]

\[
\delta = 2\sqrt{2.08} - 1.93
\]

\[
\delta = 2\sqrt{2.08}
\]

\[S.D = 2\times1.44\]

\[SD = 2.88\]

**Interpretation:-**

It is evident from table no 13 that the mean of Anxiety score of All students is 12.28 which falls in average range.
Table 14: Critical Ratio: -

<table>
<thead>
<tr>
<th>English Medium Boys &amp; Girls</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boys</td>
</tr>
<tr>
<td>Girls</td>
</tr>
</tbody>
</table>

$$S_{EM} = \sqrt{\frac{\sigma_1^2}{N_1} + \frac{\sigma_2^2}{N_2}}$$

$$S_{EM} = \sqrt{\frac{(3.16)^2}{216} + \frac{(3.22)^2}{153}}$$

$$S_{EM} = \sqrt{0.038 + 0.0677}$$

$$S_{EM} = 0.32$$

$$C.R = \frac{M_1 - M_2}{S_{EM}}$$

$$C.R = \frac{11.62 - 11.4}{0.32}$$

$$C.R = \frac{0.22}{0.32}$$

$$C.R = 0.68$$

0.68 < 1.96

**Interpretation:**

Since Critical Ratio 0.68 is not significant at 0.05 level. Hence there is no significant difference between the Academic Anxiety of English Medium Boys and Girls.
Table 15: Critical Ratio:-

<table>
<thead>
<tr>
<th>Urdu Medium Boys &amp; Girls</th>
<th>Girls</th>
<th>M₁=12.72</th>
<th>SD₁=2.62</th>
<th>N₁=389</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boys</td>
<td>M₂=10.72</td>
<td>SD₂=3.18</td>
<td>N₂=275</td>
<td></td>
</tr>
</tbody>
</table>

\[
S_{EM} = \frac{\sigma_1^2 + \sigma_2^2}{\sqrt{\frac{1}{N_1} + \frac{1}{N_2}}}
\]

\[
S_{EM} = \sqrt{\frac{(2.62)^2 + (3.18)^2}{389 + 275}}
\]

\[
S_{EM} = \sqrt{6.86 + 10.112}
\]

\[
S_{EM} = \sqrt{0.017 + 0.0367}
\]

\[
S_{EM} = \sqrt{0.0537}
\]

\[
S_{EM} = 0.2318
\]

\[
C.R = \frac{M_1 - M_2}{S_{EM}}
\]

\[
C.R = \frac{12.72 - 10.72}{0.3}
\]

\[
C.R = \frac{2.00}{0.3}
\]

\[
C.R = 6.67 \cong 6.7
\]

\[
6.7 > 1.96
\]

Interpretation:-

Since Critical Ratio 6.7 is significant at 0.05 level. Hence there is no significant difference between the Academic Anxiety of Urdu Medium Boys and Girls.
### Table 16: Critical Ratio:-

<table>
<thead>
<tr>
<th></th>
<th>English Medium Boys</th>
<th>Urdu Medium Boys</th>
</tr>
</thead>
<tbody>
<tr>
<td>M₁</td>
<td>11.4</td>
<td>10.72</td>
</tr>
<tr>
<td>M₂</td>
<td>3.16</td>
<td>3.18</td>
</tr>
<tr>
<td>N₁</td>
<td>261</td>
<td>275</td>
</tr>
<tr>
<td>SD₁</td>
<td>10.72</td>
<td>3.18</td>
</tr>
<tr>
<td>SD₂</td>
<td>3.18</td>
<td>275</td>
</tr>
</tbody>
</table>

\[
S_{EM} = \sqrt{\frac{\sigma_1^2 + \sigma_2^2}{N_1}}
\]

\[
S_{EM} = \sqrt{\frac{(3.16)^2 + (3.18)^2}{261}}
\]

\[
S_{EM} = \sqrt{\frac{9.98 + 10.11}{261}}
\]

\[
S_{EM} = \sqrt{0.038 + 0.036}
\]

\[
S_{EM} = \sqrt{0.074}
\]

\[
S_{EM} = 0.272
\]

\[
C.R = \frac{M_1 - M_2}{S_{EM}}
\]

\[
C.R = \frac{11.4 - 10.72}{0.272}
\]

\[
C.R = \frac{0.68}{0.272}
\]

\[
C.R = 2.5
\]

\[
2.5 > 1.96
\]

**Interpretation:-**

Since Critical Ratio 2.5 is significant at 0.05 level. Hence there is significant difference between the Academic Anxiety of score of English medium Boys and Urdu Medium Boys.
Table 17: Critical Ratio:-

<table>
<thead>
<tr>
<th>English Medium Girls &amp; Urdu Medium Girls</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
</tr>
<tr>
<td>Urdu</td>
</tr>
</tbody>
</table>

\[ S_{EM} = \sqrt{\frac{\sigma_1^2}{N_1} + \frac{\sigma_2^2}{N_2}} \]

\[ S_{EM} = \sqrt{\frac{(3.22)^2}{153} + \frac{(2.62)^2}{389}} \]

\[ S_{EM} = \sqrt{\frac{10.63}{153} + \frac{6.86}{389}} \]

\[ S_{EM} = \sqrt{0.067 + 0.017} \]

\[ S_{EM} = 0.084 \]

\[ S_{EM} = 0.28 \]

\[ C.R = \frac{M₁ - M₂}{S_{EM}} \]

\[ C.R = \frac{11.6 - 12.72}{0.13} \]

\[ C.R = 1.12 \]

\[ C.R = 4 \]

4 > 1.96

**Interpretation:-**

Since Critical Ratio is 4 which is greater than 1.96(table value). Hence deference is significant at 0.05 level. Hence there is significant difference between the Academic Anxiety score of English medium Girls and Urdu Medium Girls.
### Table 18: Critical Ratio:

<table>
<thead>
<tr>
<th></th>
<th>All Girls students</th>
<th>Vs All Boys students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Girls</td>
<td>( M_1 = 12.51 )</td>
<td>( SD_1 = 2.9 )</td>
</tr>
<tr>
<td>Boys</td>
<td>( M_2 = 12.06 )</td>
<td>( SD_2 = 2.8 )</td>
</tr>
</tbody>
</table>

\[
S_{EM} = \sqrt{\frac{\sigma_1^2}{N_1} + \frac{\sigma_2^2}{N_2}}
\]

\[
S_{EM} = \sqrt{\frac{(2.9)^2}{542} + \frac{(2.82)^2}{536}}
\]

\[
S_{EM} = \sqrt{\frac{8.41}{542} + \frac{7.95}{536}}
\]

\[
S_{EM} = \sqrt{0.01551 + 0.01483}
\]

\[
S_{EM} = 0.404
\]

\[
C.R = \frac{M_1 - M_2}{S_{EM}}
\]

\[
C.R = \frac{12.51 - 12.06}{0.404}
\]

\[
C.R = \frac{0.45}{0.404}
\]

\[
C.R = 1.113
\]

\[1.11 < 1.96\]

**Interpretation:**

Since Critical Ratio 1.11 is smaller than 1.96 is not significant at 0.05 level of confidence. Hence there is no significant difference between the Academic Anxiety level of Girls and Boys students.
Table 19: Critical Ratio:

<table>
<thead>
<tr>
<th>Urdu Medium Students</th>
<th>Vs</th>
<th>English Medium Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Urdu Medium</td>
<td>$M_1 = 12.44$</td>
<td>S.D$_1 = 2.90$</td>
</tr>
<tr>
<td>English Medium</td>
<td>$M_2 = 11.5$</td>
<td>S.D$_2 = 3.18$</td>
</tr>
</tbody>
</table>

\[ S_{EM} = \frac{\sigma_1^2 + \sigma_2^2}{N_1 + N_2} \]

\[ S_{EM} = \sqrt{\frac{(2.90)^2 + (3.18)^2}{664 + 414}} \]

\[ S_{EM} = \frac{8.41 + 10.11}{664 + 414} \]

\[ S_{EM} = \sqrt{0.012 + 0.024} \]

\[ S_{EM} = \sqrt{0.036} \]

\[ S_{EM} = 0.189 \]

\[ C.R = \frac{M_1 - M_2}{S_{EM}} \]

\[ C.R = \frac{12.44 - 11.5}{0.189} \]

\[ C.R = \frac{0.94}{0.189} \]

\[ C.R = 4.973 \]

**Interpretation:**

Since Critical Ratio 4.97 is greater than 1.96 hence deference is significant at 0.05 level of confidence. There is significant difference between the Academic Anxiety score of Urdu Medium students and English Medium Students.
Table No (20) Showing Mean, S.D. T-Score (C.R) of different Variables:-

<table>
<thead>
<tr>
<th>Group</th>
<th>N</th>
<th>Mean</th>
<th>S.D</th>
<th>C.R</th>
<th>Significant / Insignificant</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Medium Boys</td>
<td>251</td>
<td>11.5</td>
<td>3.16</td>
<td>0.68</td>
<td>Insignificant</td>
</tr>
<tr>
<td>English Medium Girls</td>
<td>153</td>
<td>11.6</td>
<td>3.22</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Urdu Medium Boys</td>
<td>275</td>
<td>10.72</td>
<td>3.18</td>
<td>6.7</td>
<td>Significant</td>
</tr>
<tr>
<td>Urdu Medium Girls</td>
<td>389</td>
<td>12.72</td>
<td>2.62</td>
<td></td>
<td></td>
</tr>
<tr>
<td>English Medium Boys</td>
<td>251</td>
<td>11.4</td>
<td>3.16</td>
<td>2.5</td>
<td>Significant</td>
</tr>
<tr>
<td>Urdu Medium Boys</td>
<td>275</td>
<td>10.72</td>
<td>3.18</td>
<td></td>
<td></td>
</tr>
<tr>
<td>English Medium Girls</td>
<td>153</td>
<td>11.6</td>
<td>3.22</td>
<td>4</td>
<td>Significant</td>
</tr>
<tr>
<td>Urdu Medium Girls</td>
<td>389</td>
<td>12.72</td>
<td>2.26</td>
<td></td>
<td></td>
</tr>
<tr>
<td>All Girls Students</td>
<td>542</td>
<td>12.51</td>
<td>2.9</td>
<td>1.11</td>
<td>Insignificant</td>
</tr>
<tr>
<td>All Boys Students</td>
<td>536</td>
<td>12.06</td>
<td>2.8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Urdu Medium Students</td>
<td>664</td>
<td>12.44</td>
<td>2.90</td>
<td>4.97</td>
<td>Significant</td>
</tr>
<tr>
<td>English Medium Students</td>
<td>414</td>
<td>11.5</td>
<td>3.18</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Graph Showing T-Score (C.R) of different variables:

- English Medium Boys & Girls: 0.68
- Urdu Medium Boys & Girls: 6.7
- English & Urdu Medium Boys: 2.5
- English & Urdu Medium Girls: 4
- All Boys & Girls Urdu & English Medium Students: 1.11
- Urdu & English Medium Students: 4.97
- Total: 1.96