**Week 1 Assessment**

The due date for submitting this assignment has passed.

As per our records you have not submitted this assignment.

Due on 2021-02-03, 23:59 IST.

1) The monthly average salary of all employees in XYZ company was ₹ 500. The mean of monthly salary paid to male and female employees were ₹ 520 and ₹ 420 respectively. Obtain the percentage of male and female employees in XYZ company.

   - Male employees 80%, female employees 20%
   - Male employees 70%, female employees 30%
   - Male employees 90%, female employees 10%

No, the answer is incorrect.
Score: 0
Accepted Answers:
Male employees 80%, female employees 20%

2) The mean age of a group of 100 children was 9.35 years. The mean age of 25 of them was 8.75 years and that of another 65 was 10.51 years. What was the mean age of the remainder?

   - 3.21
   - 4.20
   - 7.6

No, the answer is incorrect.
Score: 0
Accepted Answers: 3.21

3) Suppose mean and standard deviation of 20 items are found to be 10 and 2 respectively. At time of checking, we found that one item says 8 was incorrect and we replace it by 12. Now calculate the new mean and standard deviation of these 20 items.

   - Mean 10 and Standard deviation 2
   - Mean 10.11 and Standard deviation 1.98
   - Mean 10.2 and Standard deviation 1.88

No, the answer is incorrect.
Score: 0
Accepted Answers: Mean 10.2 and Standard deviation 1.88

4) Compute the standard deviation of household size from the following frequency distribution of 500 households:

<table>
<thead>
<tr>
<th>Household size</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. of households</td>
<td>92</td>
<td>49</td>
<td>52</td>
<td>82</td>
<td>102</td>
<td>60</td>
<td>35</td>
<td>24</td>
<td>4</td>
</tr>
</tbody>
</table>

   - 4.43
   - 2.11
   - 3.43

No, the answer is incorrect.
Score: 0
Accepted Answers: 3.43

5) Find the median from the following simple frequency distribution.

<table>
<thead>
<tr>
<th>x</th>
<th>0</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>f</td>
<td>7</td>
<td>44</td>
<td>35</td>
<td>16</td>
<td>9</td>
<td>4</td>
<td>1</td>
<td>116</td>
</tr>
</tbody>
</table>

   - 2
   - 1
   - 3

No, the answer is incorrect.
Score: 0
Accepted Answers: 2

6) Use Bowley’s measure of skewness for following distribution.

<table>
<thead>
<tr>
<th>Annual sales (Rs 1000)</th>
<th>0-20</th>
<th>20-50</th>
<th>50-100</th>
<th>100-250</th>
<th>250-500</th>
<th>500-1000</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. of firms</td>
<td>20</td>
<td>50</td>
<td>69</td>
<td>30</td>
<td>25</td>
<td>19</td>
</tr>
</tbody>
</table>

   - 0.55
   - -0.55
   - 1.2

No, the answer is incorrect.
Score: 0
Accepted Answers: 0.55