

Answer on Question #52453 – Math - Statistics and Probability

Given the following ordered arrangement of ungrouped data:

114	118	121	124	127	131	134	137
116	119	122	125	127	131	135	137
116	120	123	125	128	133	135	141
116	121	123	126	129	133	135	143
117	121	124	126	129	134	135	147

Arrange the data in a frequency distribution having the following columns:
Class boundaries, frequency, class mark.

Let the boundary values of the first class be: $110 - < 115$.

Solution:

The frequency is given by the number of elements in the class. The class mark is given by the sum of upper and lower limits divided by 2. Therefore,

Class boundaries	Frequency	Class mark
110-115	1	112.5
115-120	6	117.5
120-125	9	122.5
125-130	9	127.5
130-135	6	132.5
135-140	6	137.5
140-145	2	142.5
145-150	1	147.5