

Answer on Question #85454 – Math – Statistics and Probability

Question

c) Below is a stem and leaf diagram of the heights of a number of people in inches

Stem Leaf

13 6 9 9 Key

14 2 3 3 3 3 4 13 6=136

14 6 7 7 8 9

15 1 3 4

15 6 7

16 2 4

- i. How many people were sampled (2 Marks)
- ii. What is the modal height (2 Marks)
- iii. What is the range of the height (2 Marks)
- iv. List all the heights of the people sampled (3 Marks)

Solution

i. $n = 3 + 6 + 5 + 3 + 2 + 2 = 21$.

ii. $Mode = 143$.

iii. $Range = 164 - 136 = 28$.

iv. 136, 139, 139, 142, 143, 143, 143, 143, 144, 146, 147, 147, 148, 149,
151, 153, 154, 156, 157, 162, 164.