

For questions 1 to 5, refer to the following information:

Stem	Leaves
12	3 8 8 9
13	2 3 3 4 4 8 9
14	0 2 2 4 5 5 5 6 8 8 9
15	0 1 3 3 5 6 7 8 9 9
16	1 2 2 9

Legend: 12|3 = 123

1. According to the stem-and-leaf plot, what starting weight occurs most often?
 - a) 128
 - b) 134
 - c) 145
 - d) 162
2. According to the stem-and-leaf plot, approximately what percent of the 36 female participants have a starting weight of at least 145 pounds?
 - a) 33 %
 - b) 44 %
 - c) 50 %
 - d) 58%
3. To the nearest tenth, what is the mean starting weight in pounds of the 36 participants?
 - a) 140.0
 - b) 145.0
 - c) 145.5
 - d) 145.8
4. To the nearest tenth, what is the median starting weight in pounds of the 36 participants?
 - a) 140.0
 - b) 145.0
 - c) 145.5
 - d) 145.8
5. What is the modal starting weight in pounds of the 36 participants?
 - a) 128
 - b) 145
 - c) 162
 - d) There is no mode

For questions 6 to 11, refer to the information shown here:



6. According to the dot plot, how many customers waited less than 15 minutes in line?
 - a) 10
 - b) 12

- c) 13
 - d) 15
7. According to the dot plot, what is the greatest amount of time in minutes waited in line by a customer?
 - a) 15
 - b) 17
 - c) 19
 - d) 20
8. The median is
 - a) 8
 - b) 9
 - c) 10
 - d) 13
9. The first Quartile Q1 is
 - a) 4
 - b) 5
 - c) 6
 - d) 7
10. The IQR is equal to
 - a) 8
 - b) 6
 - c) 3
 - d) 14
11. To the nearest tenth, what is the mean number of minutes the 16 customers waited in line?
 - a) 10.0
 - b) 10.3
 - c) 10.5
 - d) 11.0
12. In the following data set, what additional number should be included in the data set to yield a mean of 10?
5, 8, 10, 12, ____
 - a) 8
 - b) 10
 - c) 12
 - d) 15
13. A student has the following scores on three 100-point tests: 77, 91, and 94. What score must the student earn on the fourth 100-point test to have an average (mean) of 90 for the four tests?
 - a) 90
 - b) 95
 - c) 98
 - d) 100
14. Consider the following data as a sample and calculate the variance to three decimal places.
15, 33, 30, 50, 0
 - a) 359.300
 - b) 287.440
 - c) 18.955
 - d) 16.954
15. Consider the following data as a sample and calculate the standard deviation to two decimal places.
-4, 25, -4, 11, 19, 4
 - a) 144.30
 - b) 120.25
 - c) 12.01
 - d) 10.97

BEST WISHES // Dr. Mostafa A. Elhosseini