

Answers for Lesson 9-5, pp. 435–437 Exercises

1. 6 is the stem; 7 is the leaf.

2. 6, 7, 8, 9

3. 8, 8

4. 24

5. median: 84%
mode: 78%

6.
$$\begin{array}{l|l} 0 & 6 \ 7 \ 8 \ 8 \ 8 \\ 1 & 0 \ 1 \ 2 \ 2 \ 3 \ 6 \ 6 \ 7 \ 8 \ 8 \ 8 \ 8 \ 8 \ 9 \ 9 \ 9 \ 9 \ 9 \\ 2 & 0 \ 7 \ 7 \end{array}$$

Key: 0 | 6 means 6

median: 17.5;
mode: 18 and 19

7.
$$\begin{array}{l|l} 4 & 0 \ 8 \ 9 \\ 5 & 0 \ 2 \ 3 \ 4 \\ 6 & 1 \ 7 \ 8 \ 9 \\ 7 & 3 \ 4 \ 6 \ 8 \end{array}$$

Key: 4 | 8 means 48

8.
$$\begin{array}{l|l} 10 & 5 \ 7 \\ 11 & 6 \ 6 \\ 12 & 2 \ 4 \ 9 \\ 13 & 1 \ 4 \ 7 \ 8 \ 8 \end{array}$$

Key: 13 | 1 means 131

9.
$$\begin{array}{l|l} 3 & 2 \ 7 \\ 4 & 1 \ 3 \ 5 \\ 5 & 0 \ 0 \ 2 \ 8 \\ 6 & 3 \ 7 \ 9 \ 9 \end{array}$$

Key: 3 | 2 means 3.2

10. The mean and median for the men's blood pressure are 87 and 88.5, respectively, whereas the mean and median for the women's blood pressure are 76.5 and 77, respectively.

11. Both measures of central tendency indicate that the women's blood pressure in the survey was considerably less than the men's blood pressure.

Answers for Lesson 9-5, pp. 435–437 Exercises (cont.)

12. Length of Wood

Saw A		Saw B
	4	3 5 9
8 7 4 4 2	5	2 7
4 3 1	6	3 4
	7	2

Key: 61 ← means 1 | 6 | 3 means → 63

Saw A: 57.5; 54

Saw B: 54.5; no mode

13. The mean, median, and mode for the men’s golf scores are around 278 strokes, while the women’s scores were around 280. This indicates that the difference in scores isn’t very large. However, the fact that one of the modes for the women’s scores was 290 shows that women frequently do have a higher number of strokes.

14. a. Life Spans of Different Animals

0	1 3 4 5 6 7 7
1	0 0 0 2 2 3 5 5 5 5 5 8
2	0 0 0 0 2 5 5
3	
4	0

Key: 1 | 3 means 13 years

b. Answers may vary. Sample: The new data include decimal values. You might choose to use the integer part as stems to avoid decimals in the leaves.

15. It is not necessary, but it would help show the range of data.

