9.

White Blood Cell Count of Males	Frequency
3.0–4.9	8
5.0–6.9	15
7.0–8.9	11
9.0–10.9	5
11.0–12.9	1

10.

White Blood Cell Count of Females	Frequency
3.0–4.9	6
5.0–6.9	16
7.0–8.9	9
9.0–10.9	7
11.0–12.9	0
13.0–14.9	2

Normal Distributions. ***In Exercises 11–14, answer the given questions which are related to normal distributions.***

11. Identifying the Distribution Using a reasonably strict interpretation of the relevant criteria, does the frequency distribution given in Exercise 5 appear to have a normal distribution? Explain.

12. Identifying the Distribution Does the frequency distribution given in Exercise 7 appear to have a normal distribution? Explain.

13. Normal Distribution Refer to the frequency distribution given in Exercise 9 and ignore the given frequencies. Assume that the first two frequencies are 4 and 7, respectively. Assuming that the distribution of the 40 sample values is a normal distribution, identify the remaining three frequencies.

14. Normal Distribution Refer to the frequency distribution given in Exercise 10 and ignore the given frequencies. Assume that the first two frequencies are 2 and 6, respectively. Assuming that the distribution of the 40 sample values is a normal distribution, identify the remaining four frequencies.

Relative Frequencies for Comparisons. ***In Exercises 15 and 16, construct the relative frequencies and answer the given questions.***

15. Oscar Winners Construct one table (similar to Table 2-9 on page 50) that includes relative frequencies based on the frequency distributions from Exercises 5 and 6, and then compare the ages of Oscar-winning actresses and actors. Are there notable differences?

16. White Blood Cell Counts Construct one table (similar to Table 2-9 on page 50) that includes relative frequencies based on the frequency distributions from Exercises 9 and 10, and then compare the white blood cell counts of females and males. Are there notable differences?

Cumulative Frequency Distributions. ***In Exercises 17 and 18, construct the cumulative frequency distribution that corresponds to the frequency distribution in the exercise indicated.***

17. Exercise 5

18. Exercise 6

Constructing Frequency Distributions. ***In Exercises 19–28, use the indicated data and construct the frequency distribution.***

19. Analysis of Last Digits Heights of statistics students were obtained by the author as part of an experiment conducted for class. The last digits of those heights are listed below. Construct a frequency distribution with 10 classes. Based on the distribution, do the heights appear to be reported or actually measured? What do you know about the accuracy of the results?

0 0 0 0 0 0 0 0 0 0 1 1 2 3 3 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 6 6 8 8 8 9