4. The following are reading comprehension scores for a third-grade class of 18 students:

$$5, \ 3, \ 5, \ 4, \ 5, \ 5, \ 4, \ 5, \ 2$$

$$4, \ 5, \ 3, \ 5, \ 4, \ 5, \ 5, \ 3, \ 5$$

a. Place the scores in a frequency distribution table.
b. Sketch a histogram showing the distribution.
c. Using your graph, answer the following questions:
   (1) What is the shape of the distribution?
   (2) If a score of $X = 3$ is considered typical for third-graders, how would you describe the general reading level for this class?

6. For the set of scores shown in the following frequency distribution table,
   a. How many scores are in the distribution? ($N = ?$)
   b. Find ΣX for this set of scores.

X	f
4	2
3	4
2	5
1	3

9. Find N, ΣX, and ΣX^2 for the set of scores in the following frequency distribution table:

X	f
5	1
4	3
3	5
2	2
1	2

12. For the following set of scores:

$$5, \ 6, \ 2, \ 3, \ 6, \ 5, \ 6, \ 4, \ 1, \ 5, \ 6, \ 3, \ 4$$

a. Construct a frequency distribution table.
b. Sketch a polygon showing the distribution.
c. Describe the distribution using the following characteristics:
   (1) What is the shape of the distribution?
   (2) What score best identifies the center (average) for the distribution?
   (3) Are the scores clustered together, or are they spread out across the scale?
d. Construct a frequency distribution graph.

14. Place the following 28 scores in a grouped frequency distribution table using
   a. An interval width of 2.
   b. An interval width of 5.

$$23, \ 12, \ 16, \ 16, \ 17, \ 19, \ 28$$

$$20, \ 14, \ 21, \ 18, \ 24, \ 29, \ 24$$

$$18, \ 21, \ 22, \ 27, \ 21, \ 25, \ 19$$

$$22, \ 23, \ 21, \ 30, \ 27, \ 23, \ 18$$

c. Construct a grouped frequency distribution graph.

20. Complete the cumulative frequency column and the cumulative percentage column for the following table:

X	f	cf	c%
5	7		
4	8		
3	5		
2	3		
1	2		