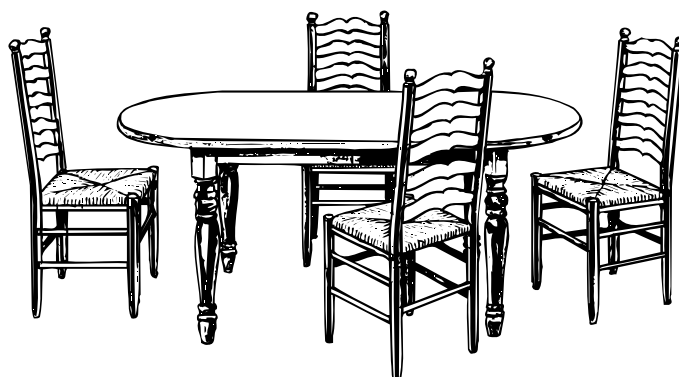


2-1**Real-Life Career Activity****Restaurant Manager**

One responsibility of a restaurant manager is handling reservations. Before a restaurant opens for the day, the manager inspects the reservation list. Then the wait staff groups the tables according to the size of the parties the restaurant is expecting. The staff combines tables to seat a range of group sizes from the smallest to the largest.



Suppose the numbers in the parties expected that evening are of the following sizes.

2, 8, 3, 10, 9, 4, 4, 5, 2, 2, 3, 8

What are the sizes of the largest and smallest parties? What is the range of party sizes for the evening?

The largest party has ten members, and the smallest party has two members. The range of party sizes is eight—the difference between the largest and the smallest. The restaurant manager uses these numbers to make sure there are tables for the party of ten and the parties of two.

Solve.

1. The hourly pay rates of the ten wait staff are: \$9, \$7.50, \$6, \$5.50, \$5.50, \$8, \$7, \$8, \$7, \$8.50. Make a frequency table of the data. What are the highest and lowest pay rates? What is the range of pay rates?
2. The numbers of months of experience of the ten wait staff are: 15, 2, 8, 14, 1, 24, 20, 8, 10, 12. What are the highest and lowest numbers of months of experience? What is the range of months of experience?
3. The sizes of the parties expected one evening are: 6, 2, 6, 2, 8, 10, 4, 2, 15, 8. Make a frequency table of the data. What are the sizes of the largest and smallest parties expected? What is the range of party sizes for the evening?