

13 CHAPTER REVIEW

13.7 Interpret Stem-and-Leaf Plots and Histograms

pp. 881–885

EXAMPLE

The prices (in dollars) of several books are listed below. Make a stem-and-leaf plot of the prices.

14, 15, 9, 19, 21, 29, 12, 25, 10, 8, 15, 13, 15, 20

STEP 1 Separate the data into stems and leaves

Book Prices

Stem	Leaves
0	9 8
1	4 5 9 2 0 5 3 5
2	1 9 0 5

Key: 1 | 4 = \$14

STEP 2 Write the leaves in increasing order.

Book Prices

Stem	Leaves
0	8 9
1	0 2 3 4 5 5 5 9
2	0 1 5 9

Key: 1 | 4 = \$14

EXERCISES

24. EXERCISING The minutes per day that the students in a class spend exercising are listed below. Make a stem-and-leaf plot of the data.

20, 25, 0, 10, 0, 30, 35, 20, 45, 25, 40, 0, 0, 0, 5, 10, 20, 15, 20, 30

EXAMPLE 1

on p. 881
for Ex. 24

13.8 Interpret Box-and-Whisker Plots

pp. 887–892

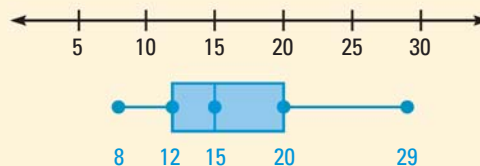
EXAMPLE

Make a box-and-whisker plot of the book prices in the example above.

Order the data. Then find the median and quartiles.

Upper quartile Median = 15 Lower quartile
 8 9 10 **12** 13 14 15 15 15 19 **20** 21 25 29

Plot the median, the quartiles, the maximum value, and the minimum value below a number line. Draw the box and the whiskers.



EXERCISES

25. EXERCISING Use the data in Exercise 24 to make a box-and-whisker plot of the minutes per day that the students in the class spend exercising.

EXAMPLE 1

on p. 887
for Ex. 25