LESSON Practice A

6-9 Stem-and-Leaf Plots

Complete each activity and answer each question.

1. Use the data in the table to complete the stem-and-leaf plot below.

Daily Low Temperatures (°F)	16	21	15	27	30	25
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Daily Low Temperature



Key: 1 | 6 = _____

Find each value of the data set.

2. smallest value	Stem	Leaves
3. largest value	1	05
4. mean	2	3
5. median	3	7
6. mode	4	5
7. range	Key: 2 4 =	= 24

- 8. In the stem-and-leaf plot for Exercises 2–7, which digit was used for the stems? for the leaves?
- 9. Look at the stem-and-leaf plot you made for Exercise 1. What are the smallest and largest values in the data set?

The table shows the times in seconds and hundredths of seconds for the women's 500-meter speed-skating competition in the 2002 Winter Olympics. Complete each activity and answer each question. 1. Use the data in the table to complete the stem-and-leaf plot below.	
for the women's 500-meter speed-skating competition in the 2002 Winter Olympics.	
14.15 14.94 15.19 15.37 15.39 15.64 16.17 16.20 76.31 76.27 76.40 76.20 76.20 77.10 77.27 77.60 16 21 1	5 27 30 25
76.37 76.42 76.52 76.73 76.75 <th< th=""><th>stem-and-leaf plots.</th></th<>	stem-and-leaf plots.
You can organize the data by seconds and hundredths of seconds. 1 5 6 Notice how the times are grouped using different colors. 2 1 5 7 1. Complete the stem-and-leaf plot. The stems represent seconds 3 0	
and the leaves represent hundredths of seconds. Notice how the colors correspond to the colors used in the table.	
Steme Leaves Steme Leaves	eaves
Sterins Leaves 3. largest value 45 1 0 74 75 94 76	5
75 19 37 39 64 64 4. mean <u>20</u> 2 3	
76 17 20 31 37 42 62 73 73 86 92 5. median 20 4 5	
77 10 37 60 60 71 0 0 mode $-$	24
/8 20 00 / 9 09 / 1 tailye	
Key: 74 75 means 74.75 8. In the stem-and-leaf plot for 9. Look at the st	tem-and-leaf plot you
Exercises 2–7, which digit was used made for Exercises 2–7, which digit was used <th>rcise 1. What are the largest values in the</th>	rcise 1. What are the largest values in the
2. Explain what it means in this case for a stem to have the most number of leaves. stems: tens; leaves: ones smallest: 15	i; largest: 30
More speedskaters finished in that many seconds.	
3. Explain what it means in this case for a stem to have the least	
number of leaves.	
i në tëwest numbër of speedskaters finished in that many seconds.	
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LESSON Practice B	
Cts Stem-and-Leaf Plots	
Complete each activity and answer the questions. Complete each activity and answer the questions.	
1. Use the data in the table to complete the stem-and-leaf plot 1. Use the data in the table to make a stem-and-leaf plot.	
Books Read by Read-A-Thon Participants	
Richmond, Virginia, Monthly Normal Temperatures (°F) 50 19 24 45 44 12 32 19 38	43
Jan Feb Mar April May June July Aug Sep Oct Nov Dec 35 40 15 19 26 30 28 40 12	18
37 39 48 57 74 78 77 76 70 59 50 40	
Stem Leaves 1 2 2 5 8 0 0 0	
3 7 9 2 4 6 8	
3 7 9 4 0 8 3 0 2 5 8	
3 7 9 2 4 6 8 4 0 8 3 0 2 5 8 5 0 7 9 4 0 3 4 5	
3 7 9 2 4 6 8 4 0 8 3 0 2 5 8 5 0 7 9 4 0 0 3 4 5 6 5 0 5 0 5 0 5 0	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
3 7 9 2 4 6 8 $4 0 8$ 3 0 2 5 8 $5 0 7 9$ 4 6 7 8 3 0 2 5 8 $7 0 4 6 7 8$ 3 0 2 5 8 3 0 2 5 8 Key: 1 2 = 12°F Key: 1 2 = 12 12 12 12 12 12	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	eaves 5 8 9 4 5 6 8 8 6 2 bu display a data value em-and-leaf plot above? be the mean of this new e stem and 5 for an: 26
$\begin{array}{c} 3 & 7 & 9 \\ 4 & 0 & 8 \\ 5 & 0 & 7 & 9 \\ 6 & 0 & 4 & 6 & 7 & 8 \\ \hline \\ Find each value of the data set. \\ 2 & smallest value \underline{61}3. largest value \underline{61}3. largest value \underline{98}4. mean \underline{79.4}5. median \underline{82}6. mode \underline{82}7. range \underline{37}8. Look at the stem-and-leaf plot you made for Exercise 1. How many months in Richmond have a normal temperature above 70°F? \underline{4 \text{ months}}4. months \underline{12}5. mothe \underline{28}7. range \underline{40}8. Look at the stem-and-leaf plot you made for Exercise 1. How many students read more than 40 books during the read-a-thon? \underline{13}6. mothe \underline{28}7. range \underline{40}8. Look at the stem-and-leaf plot you made for Exercise 1. How many students read more than 40 books during the read-a-thon? \underline{13}4. months \underline{12}5. mothe \underline{12}6. mothe \underline{12}5. mothe \underline{12}6. mothe \underline{12}7. mothe \underline{12}7. mothe \underline{12}7. mothe \underline{12}7. mothe \underline{12}7. mothe \underline{12}7. mothe \underline{12}7$	eaves 5 8 9 4 5 6 8 8 6 2 bu display a data value em-and-leaf plot above? be the mean of this new e stem and 5 for an: 26
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	eaves 5 8 9 4 5 6 8 8 6 2 bu display a data value em-and-leaf plot above? the mean of this new e stem and 5 for tan: 26
$\begin{array}{c} 3 & 7 & 9 \\ 4 & 0 & 8 \\ 5 & 0 & 7 & 9 \\ 6 & 7 & 0 & 4 & 6 & 7 & 8 \\ \hline Find each value of the data set. \\ 2 & smallest value 61 \\ 3 & largest value 61 \\ 4 & mean 79.4 \\ 5 & median 82 \\ 6 & mode 82 \\ 7 & range 37 \\ \hline Range 37 \\ \hline Range 37 \\ \hline Range 100 on the stem-and-leaf plot you made for Exercise 1. How many months in Richmond have a normal temperature above 70°F? \\ \hline 4 & months \\ \hline \\ \hline \\ 4 & months \\ \hline \\ \hline \\ \hline \\ 4 & months \\ \hline \\ $	eaves 5 8 9 4 5 6 8 8 6 2 bu display a data value em-and-leaf plot above? the mean of this new e stem and 5 for tan: 26