

Leaf It Organized

Build clear stem-and-leaf plots from data.

GRADE 5 • 5.PS.1.d

5.PS.1.d "Organize and represent numerical data using a stem-and-leaf plot with a title and key, where the stems are listed in ascending order and the leaves are in ascending order, with or without commas between the leaves."

NAME _____

DATE _____

BUILD THE PLOT

Use the tens digit as the stem and the ones digit as the leaf. List stems from least to greatest, then put each row's leaves in order. Add a title and a key that tells what one stem-and-leaf pair means.

WORKED EXAMPLE

Use the data on the dot plot to make a stem-and-leaf plot titled "Plant Heights."

- Sort the values: 12, 14, 14, 17, 19, 21.
- Use 1 and 2 as the stems.
- Write the leaves in order for each stem.
- Add a key to show that 1 | 2 means 12.

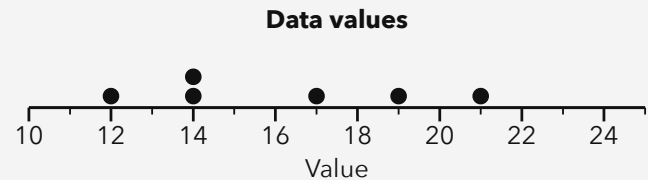
Answer:

Plant Heights

1 | 2 4 4 7 9

2 | 1

Key: 1 | 2 = 12



PRACTICE 4 problems

- 1** Make a stem-and-leaf plot titled "Quiz Scores" for 33, 31, 35, 32, 35. Include a key.

Title: _____

Stem	Leaves

Key: _____

ANSWER _____

- 3** Make a stem-and-leaf plot titled "Jump Lengths" for 56, 53, 59, 51, 56, 58. Include a key.

Title: _____

Stem	Leaves

Key: _____

ANSWER _____

- 2** A plot has 4 | 8 2 6. Rewrite the leaves in the correct order. Include a key.

Title: _____

Stem	Leaves

Key: _____

ANSWER _____

- 4** Study this plot.

Book Pages

6 | 1 4 4 7

7 | 0 3

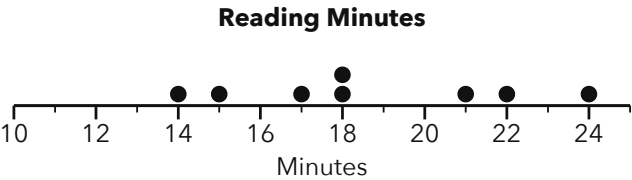
Key: 6 | 1 = 61

What is the greatest number?

ANSWER _____

APPLY IT Show your work

- 1** The dot plot shows how many minutes students read. Make a stem-and-leaf plot titled “Reading Minutes.” Include a key.



Title: _____

Stem	Leaves

Key: _____

ANSWER _____

- 2** At a can drive, six teams collected 26, 29, 23, 27, 29, and 24 cans. Make a stem-and-leaf plot titled “Cans Collected.” Include a key.

Title: _____

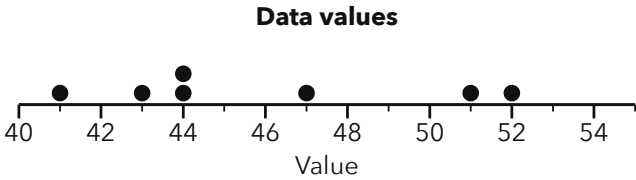
Stem	Leaves

Key: _____

ANSWER _____

CHALLENGE One step up

The dot plot shows hike times in minutes. Make a stem-and-leaf plot titled "Hike Times." Include a key. Then explain why the leaf 4 appears twice.



Title: _____

Stem	Leaves

Key: _____

PRACTICE 1

Make a stem-and-leaf plot titled "Quiz Scores" for 33, 31, 35, 32, 35. Include a key.

Quiz Scores

3 | 1 2 3 5 5

Key: 3 | 1 = 31

PRACTICE 2

A plot has 4 | 8 2 6. Rewrite the leaves in the correct order. Include a key.

4 | 2 6 8

Key: 4 | 2 = 42

PRACTICE 3

Make a stem-and-leaf plot titled "Jump Lengths" for 56, 53, 59, 51, 56, 58. Include a key.

Jump Lengths

5 | 1 3 6 6 8 9

Key: 5 | 1 = 51

PRACTICE 4

Study this plot.

Book Pages

6 | 1 4 4 7

7 | 0 3

Key: 6 | 1 = 61

What is the greatest number?

73

APPLY IT 1

Reading Minutes

1 | 4 5 7 8 8

2 | 1 2 4

Key: 1 | 4 = 14

Read the values from the dot plot. Group them by tens digit and order the ones digits.

APPLY IT 2

Cans Collected

2 | 3 4 6 7 9 9

Key: 2 | 3 = 23

All numbers have a stem of 2. Put the ones digits in ascending order, including both 9s.

CHALLENGE

Hike Times

4 | 1 3 4 4 7

5 | 1 2

Key: 4 | 1 = 41

The leaf 4 appears twice because two hike times were 44 minutes.

Accept leaves separated by commas or spaces. Titles may differ if they clearly describe the data, but each plot must have an accurate key and leaves in ascending order. The dot plots stack repeated values so every observation is visible. Preserve both repeated 14s in the example and both repeated 44s in the challenge. A title is optional for Practice 2, which only requests ordered leaves and a key.