LESSON MAKER PRO

Plot Clues

Use data displays to make true conclusions.

GRADE 5 · 5.PS.1.e.ii

5.PS.1.e.ii "Analyze data represented in line plots (dot plots) and stem-and-leaf plots and communicate results orally and in writing: make inferences about data represented in line plots (dot plots) and stem-and-leaf plots (e.g...."

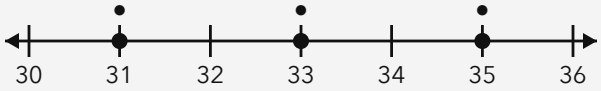
NAME _____ DATE _____

READ THE ENDS

Each mark on a line plot shows one data value. In a stem-and-leaf plot, use the key, then find the lowest and highest values to make an inference. If marks go from 90 to 94, every value is from 90 to 94.

WORKED EXAMPLE

Look at the line plot. What inference can you make about the number of cards each player collected?



1. Find the lowest mark: 31.
2. Find the highest mark: 35.
3. All values are from 31 to 35.

Answer: Every player collected from 31 to 35 cards.

PRACTICE 4 problems

1 Use the stem-and-leaf plot. What are the smallest and largest values?

Key: 4 | 1 = 41

Stem | Leaves

4 | 1 3 5 8

5 | 2

ANSWER _____

2 Use the stem-and-leaf plot. How many values are 70 or more?

Key: 6 | 2 = 62

Stem | Leaves

6 | 2 4 7

7 | 0 1 3

ANSWER _____

3 Use the stem-and-leaf plot. Can you infer that every plant is at least 13 cm tall? Write yes or no.

Key: 1 | 3 = 13

Stem | Leaves

1 | 3 5 8

2 | 0 4 7

ANSWER _____

4 Use the stem-and-leaf plot. Which statement is supported?

Key: 7 | 1 = 71

Stem | Leaves

7 | 1 2 2 6

8 | 0 3

A. All times were in the 70s.

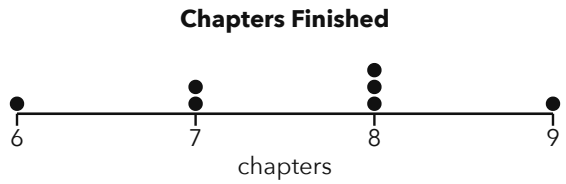
B. At least one time was 83.

C. No time was 72.

ANSWER _____

APPLY IT Show your work

1 A reading club tracked chapters finished. Jalen says every reader finished from 6 to 9 chapters. Is Jalen correct? Use the dot plot.



ANSWER _____

2 After an arcade contest, the scores were recorded below. How many players scored 20 points or more? Write an inference about the scores.

Key: 1 | 4 = 14

Stem | Leaves

1 | 4 6 9

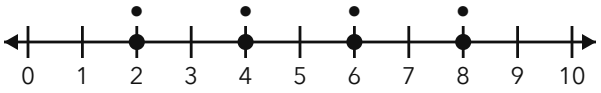
2 | 0 0 2

WORK SPACE

ANSWER _____

CHALLENGE One step up

The line plot shows badges earned by four players. A new mark at 5 is added. Is this claim still true: Every player earned an even number of badges? Explain.



WORK SPACE AND ANSWER

Plot Clues

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Use the stem-and-leaf plot. What are the smallest and largest values? Key: 4 | 1 = 41 **Stem | Leaves** 4 | 1 3 5 8 5 | 2	**41 and 52**
2	Use the stem-and-leaf plot. How many values are 70 or more? Key: 6 | 2 = 62 **Stem | Leaves** 6 | 2 4 7 7 | 0 1 3	**3**
3	Use the stem-and-leaf plot. Can you infer that every plant is at least 13 cm tall? Write yes or no. Key: 1 | 3 = 13 **Stem | Leaves** 1 | 3 5 8 2 | 0 4 7	**Yes**
4	Use the stem-and-leaf plot. Which statement is supported? Key: 7 | 1 = 71 **Stem | Leaves** 7 | 1 2 2 6 8 | 0 3 A. All times were in the 70s. B. At least one time was 83. C. No time was 72.	**B. At least one time was 83.**

PART 2 · APPLY IT

1. **Yes. The least value is 6 and the greatest value is 9.** Read the lowest and highest dots. All of the chapter totals are from 6 through 9.
2. **3 players scored 20 points or more. The scores ranged from 14 to 22 points.** Count 20, 20, and 22. The lowest score is 14 and the highest score is 22.

CHALLENGE

No. The new value, 5, is not even, so not every player earned an even number of badges.

Accept equivalent statements that name the correct inclusive range. For written inferences, accept equivalent wording that is supported by the data display. Read each displayed stem row separately; each spaced leaf is one value, including repeated leaves. Use the separately printed key to interpret the stems and leaves.