LESSON MAKER PRO

Data Detectives

Find the important parts of data displays.

GRADE 5 · 5.PS.1.e.iii

5.PS.1.e.iii "Analyze data represented in line plots (dot plots) and stem-and-leaf plots and communicate results orally and in writing: identify parts of the data that have special characteristics and explain the meaning of the greatest, the least..."

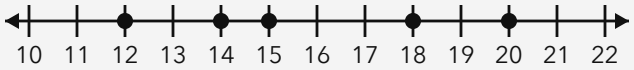
NAME _____ DATE _____

READ EVERY MARK

Each dot or leaf stands for one data value. Look for the least, greatest, repeated values, and groups with the same number of data values.

WORKED EXAMPLE

Use the data marks on the number line. What are the least and greatest values?



1. The leftmost mark is 12.
2. The rightmost mark is 20.
3. The least is 12. The greatest is 20.

Answer: Least: 12; greatest: 20

PRACTICE 4 problems

1 Key: 4 | 2 means 42.
Find the least and greatest values.

Stem | Leaves
4 | 2 5 8
5 | 0 3
6 | 1

ANSWER _____

2 Key: 2 | 1 means 21.
Which stem has the most leaves? How many leaves does it have?

Stem | Leaves
0 | 4 7
1 | 0 3
2 | 1 2 9

ANSWER _____

3 Key: 3 | 1 means 31.
Which two values appear twice?

Stem | Leaves

3 | 1 4 4 7
4 | 0 2 2
5 | 5

ANSWER _____

4 Key: 7 | 3 means 73.
What is the same about the scores in the 70s and the 90s?

Stem | Leaves

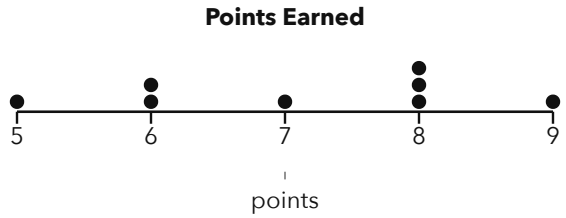
7 | 3 8
8 | 1 4 6
9 | 0 5

ANSWER _____

_____

APPLY IT Show your work

1 A game club tracked points earned in one round. Use the dot plot. What are the least and greatest scores? Which score happened most often?



ANSWER _____

2 A book club tracked minutes spent reading.
Key: 1 | 1 means 11 minutes.
Which two tens groups have the same number of students? Tell what this means.

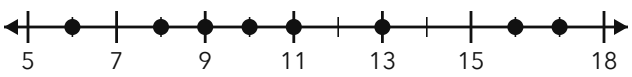
Stem | Leaves
1 | 1 3 7
2 | 1 2
3 | 1 6

WORK SPACE

ANSWER _____

CHALLENGE One step up

Nia says most of the data values are 10 or more. Is she correct? Explain using the number line.



WORK SPACE AND ANSWER

ANSWER KEY # Data Detectives

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Key: 4 | 2 means 42. Find the least and greatest values. **Stem | Leaves** 4 | 2 5 8 5 | 0 3 6 | 1	**Least: 42; greatest: 61**
2	Key: 2 | 1 means 21. Which stem has the most leaves? How many leaves does it have? **Stem | Leaves** 0 | 4 7 1 | 0 3 2 | 1 2 9	**Stem 2, with 3 leaves**
3	Key: 3 | 1 means 31. Which two values appear twice? **Stem | Leaves** 3 | 1 4 4 7 4 | 0 2 2 5 | 5	**34 and 42**
4	Key: 7 | 3 means 73. What is the same about the scores in the 70s and the 90s? **Stem | Leaves** 7 | 3 8 8 | 1 4 6 9 | 0 5	**The 70s and the 90s each have 2 scores.**

PART 2 · APPLY IT

1. **Least: 5; greatest: 9; most often: 8 points** Read the leftmost and rightmost dots for the least and greatest. Count the dots above each score to find that 8 has 3 dots.
2. **The 20s and 30s each have 2 students. Two students read 20 to 29 minutes, and 2 students read 30 to 39 minutes.** Count the leaves for stems 2 and 3. Each stem has 2 leaves.

CHALLENGE

Yes. Five of the 8 data values are 10 or more, and 3 are less than 10.

Accept equivalent wording that correctly identifies the data values and counts. For written responses, students must state both equal groups or support the claim with correct counts. 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.