LESSON MAKER PRO

Spot the Pattern

Find modes, ranges, and gaps in data.

GRADE 5 · 5.DS.A.1.b

5.DS.A.1.b "Summarize data presented in scaled visualizations (e.g. bar graphs, circle graphs, line plots, line graphs) by identifying the mode, the range, and any gaps in data and draw conclusions."

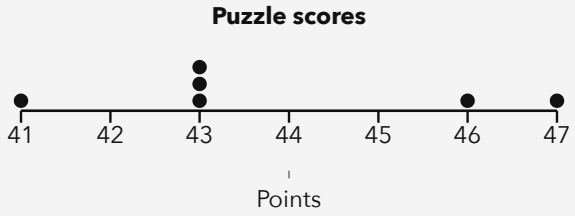
NAME _____ DATE _____

READ THE DATA

The mode is the value that appears most often. To find the range, subtract the least value from the greatest value. A gap is a value between data values with no marks.

WORKED EXAMPLE

Find the mode, range, and gaps in the dot plot.



1. The most common score is 43.
2. Subtract: 47 - 41 = 6.
3. The empty ticks between scores are 42, 44, and 45.

Answer: Mode: 43; range: 6; gaps: 42, 44, and 45.

PRACTICE 4 problems

1 Data: 2, 2, 3, 5. What is the mode?

ANSWER _____

2 Data: 10, 11, 13, 15. What is the range?

ANSWER _____

3 Data: 30, 31, 33, 34. What value is a gap?

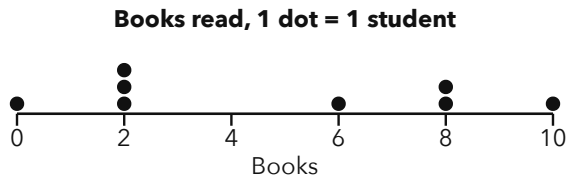
ANSWER _____

4 Data: 7, 8, 8, 9, 12. Give the mode and range.

ANSWER _____

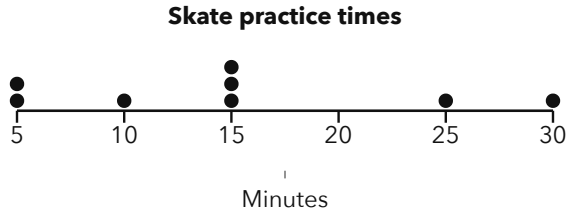
APPLY IT Show your work

1 A class tracked books read this month. What is the mode? What book count is a gap?



ANSWER _____

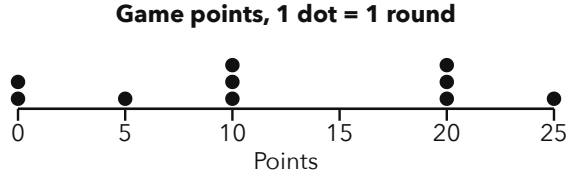
2 Each dot shows one skate practice session. What is the range? Were there more 15-minute sessions than sessions lasting at least 25 minutes?



ANSWER _____

CHALLENGE One step up

A teammate says this plot has one mode and no gaps. Explain why both claims are wrong. Give the range.



WORK SPACE AND ANSWER

ANSWER KEY

Spot the Pattern

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Data: 2, 2, 3, 5. What is the mode?	**2**
2	Data: 10, 11, 13, 15. What is the range?	**5**
3	Data: 30, 31, 33, 34. What value is a gap?	**32**
4	Data: 7, 8, 8, 9, 12. Give the mode and range.	**Mode: 8; range: 5.**

PART 2 · APPLY IT

1. **Mode: 2 books; gap: 4 books.** Two books has the most dots. Four books is an empty tick between recorded counts.
2. **Range: 25 minutes; yes, 3 sessions lasted 15 minutes and 2 lasted at least 25 minutes.** Subtract 5 from 30 to get the range. Compare the three dots at 15 with the two dots at 25 and 30 combined.

CHALLENGE

There are two modes, 10 and 20, with three dots each. There is a gap at 15. The range is 25 - 0 = 25 points.

Accept gaps described as empty ticks between recorded values. For the challenge, accept either order for the two modes.