LESSON MAKER PRO

Data Tells Stories

Read graphs and describe what happened.

GRADE 6 · 6.DSP.A.24.b

6.DSP.A.24.b "Use graphical representations of real-world data to describe the context from which they were collected."

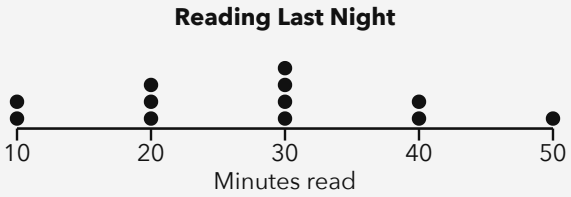
NAME _____ DATE _____

READ THE DATA

A graph shows data from a real situation. Use its labels to tell what the numbers measure. On a dot plot, each dot stands for one result.

WORKED EXAMPLE

The dot plot shows how long students read last night. How many students read 10 minutes?



1. Find 10 on the minutes axis.
2. Count the 2 dots above 10.

Answer: 2 students read 10 minutes.

PRACTICE 4 problems

1 Use the reading dot plot. How many students read 20 minutes?

ANSWER _____

2 How many more students read 30 minutes than 20 minutes?

ANSWER _____

3 How many students read at least 40 minutes?

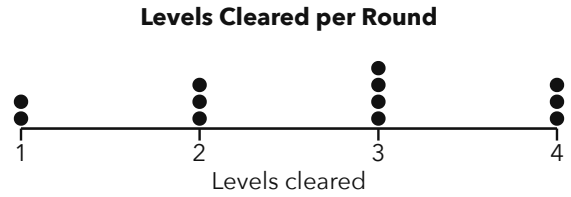
ANSWER _____

4 Which reading time was most common, and how many students read that long?

ANSWER _____

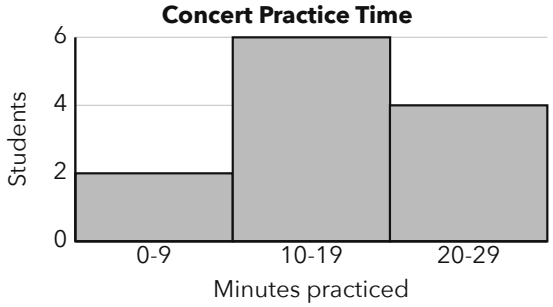
APPLY IT Show your work

1 A player tracked the levels cleared in each game round. What fraction of rounds had at least 3 levels cleared?



ANSWER _____

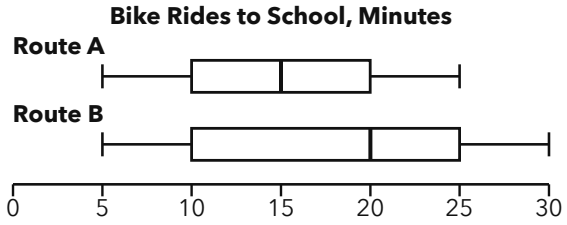
2 Students tracked their practice time for a school concert. How many practiced at least 10 minutes? Which time group had the most students?



ANSWER _____

CHALLENGE One step up

These box plots show bike rides to school on two routes. Which route has the greater median time, and by how many minutes? Does that mean every ride on that route took longer? Explain.



WORK SPACE AND ANSWER

ANSWER KEY

Data Tells Stories

GRADE 6 · 6.DSP.A.24.b

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Use the reading dot plot. How many students read 20 minutes?	**3 students**
2	How many more students read 30 minutes than 20 minutes?	**1 more student**
3	How many students read at least 40 minutes?	**3 students**
4	Which reading time was most common, and how many students read that long?	**30 minutes; 4 students**

PART 2 · APPLY IT

1. **7/12 of the rounds** There are 7 rounds with 3 or 4 levels cleared out of 12 rounds total.
2. **10 students; the 10-19 minute group** Add 6 and 4 to find the students who practiced at least 10 minutes. The 10-19 minute group has the tallest bar.

CHALLENGE

Route B has a greater median time by 5 minutes. No. Both routes include a 5-minute ride, and their times overlap.

For the challenge, accept any explanation that correctly uses the overlapping times to show why a greater median does not mean every ride took longer.