Activity 7 Assessment Data Management Consolidation

Collecting, Organizing, and Representing Data

Creates questions of interest that generate qualitative and/or quantitative data.

What types of waste do you have after eating your lunch: waste, recycling, organic?

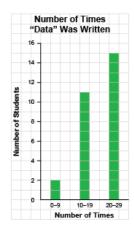
"I will get qualitative data because the possible answers are categories."

Collects data using appropriate organizers (e.g., frequency tables, stem-and-leaf plots).

Number of times "data" written	Frequency	
0–9	2	
10–19	11	
20–29	15	

"I organized the data using a frequency table to I can see the number of times most students wrote the word data"

Represents results using various tools.



"I showed the data on a bar graph using many-toone correspondence."

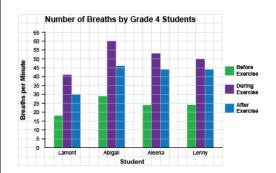
Observations/Documentation

Activity 7 Assessment Data Management Consolidation

Collecting, Organizing, and Representing Data (cont'd)

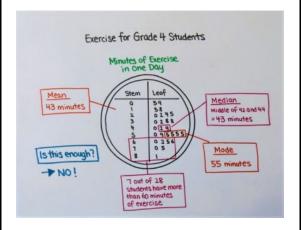
Differentiates between primary and secondary data.

"When I collect information, it is primary data. When I use data collected by someone else, it is secondary data." Represents data graphically using many-to-one correspondence with appropriate scales and intervals.



"I showed the data on a multiple-bar graph using many-to-one correspondence."

Creates infographics to show data in appropriate ways and incorporates relevant information for a specific audience.



"I want Grade 4 students to use the data to decide if they get enough exercise."

Observations/Documentation

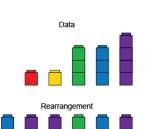
Activity 7 AssessmentData Management Consolidation

Determining the Mean, Median, and Mode

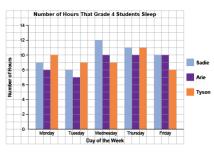
Reads and interprets data displays to determine mode and mean.

Number of siblings for a group of Grade 4 students: 0, 1, 1, 3, 3, 4
• the mode: 1 and 3

• the mean is 2



Visualizes and determines the median value as a middle measure.



"For Sadie, I order the number of hours from least to greatest: 8, 9, 10, 11, 12. The middle number is 10, so the median is 10 h." Compares distribution of data sets represented on the same data display.

	Mode	Mean	Median
Sadie	No mode	10 h	10 h
Arie	10 h	9 h	10 h
Tyson	8 h and 9 h	9 h	9 h

Fluently and flexibly finds the mode, mean, and median and explains what each indicates.



"Team B: no mode; mean: 2 goals; median: 2 goals. Team B, on average, scores 2 goals in each period."

Observations/Documentation