

Data Display Lab

Show data with tables, dots, and stems.

GRADE 4 • TEKS 4.9.A

4.9.A "represent data on a frequency table, dot plot, or stem-and-leaf plot marked with whole numbers and fractions; and"

NAME _____

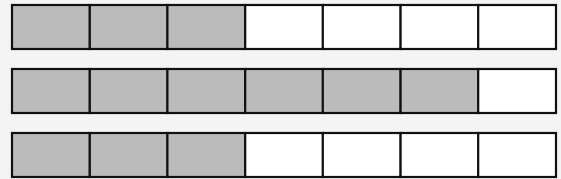
DATE _____

SHOW EACH VALUE

A frequency table lists each value once and tells how often it appears. In a dot plot, place one dot for each data value and stack matching dots. In a stem-and-leaf plot, the stem is all but the last digit, and the leaf is the last digit.

WORKED EXAMPLE

The bars show amounts of juice left.
Make a frequency table.



1. Read the amounts: $\frac{3}{7}$, $\frac{6}{7}$, $\frac{3}{7}$.
2. List each amount once.
3. Count each amount.

Answer: Frequency table: $\frac{3}{7}$: 2; $\frac{6}{7}$: 1

PRACTICE 4 problems

- 1** Make a frequency table for: $\frac{1}{2}$, 1, $\frac{1}{2}$, 1 $\frac{1}{2}$.

ANSWER _____

- 2** Make a frequency table for: 4, 8, 4, 9, 8, 9.

ANSWER _____

- 3** Make a stem-and-leaf plot for: 11, 14, 12, 11, 14, 12.

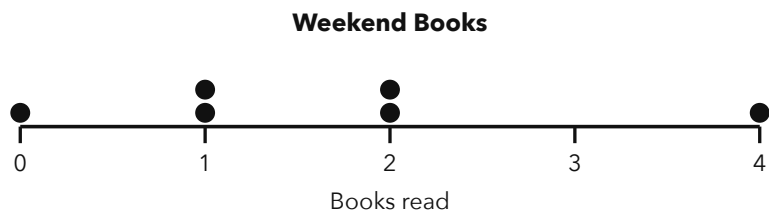
ANSWER _____

- 4** Make a dot plot for: $\frac{1}{4}$, $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{2}$.

ANSWER _____

APPLY IT Show your work

- 1** The dot plot shows how many books each club member read over a weekend. Make a frequency table.



ANSWER _____

- 2** At an arcade, six players won 21, 24, 21, 25, 24, and 25 tickets. Make a stem-and-leaf plot.

WORK SPACE

ANSWER _____

CHALLENGE One step up

The bars show the parts of four posters that are colored. Make a frequency table, then make a dot plot.



WORK SPACE AND ANSWER

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Make a frequency table for: $\frac{1}{2}$, 1, $\frac{1}{2}$, $1\frac{1}{2}$.	Frequency table: $\frac{1}{2}$: 2; 1: 1; $1\frac{1}{2}$: 1
2	Make a frequency table for: 4, 8, 4, 9, 8, 9.	Frequency table: 4: 2; 8: 2; 9: 2
3	Make a stem-and-leaf plot for: 11, 14, 12, 11, 14, 12.	Stem 1 Leaves 1 1 2 2 4 4
4	Make a dot plot for: $\frac{1}{4}$, $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{2}$.	$\frac{1}{4}$: ••; $\frac{1}{2}$: ••

PART 2 • APPLY IT

1. **Frequency table: 0: 1; 1: 2; 2: 2; 4: 1** Count the dots above each number. Write each number and its dot count in a table.
2. **Stem 2 | Leaves 1 1 4 4 5 5** All values have a stem of 2. Put the ones digits in order as leaves.

CHALLENGE

Frequency table: $\frac{1}{9}$: 2; $\frac{4}{9}$: 2. Dot plot: $\frac{1}{9}$: ••; $\frac{4}{9}$: ••

Accept tables with values in either order and dot plots with matching stack counts. For stem-and-leaf plots, require leaves in increasing order.