LESSON MAKER PRO

Count and Plot

Organize measurements in tables and line plots.

GRADE 4 · 4.D.1.1

4.D.1.1 "Create and organize data on a frequency table or line plot marked with whole numbers and fractions using appropriate titles, labels, and units."

NAME _____ DATE _____

SHOW EACH COUNT

A frequency table shows how often each value appears. On a line plot, place one mark above a value each time it appears. Give your display a title and label the values with units.

WORKED EXAMPLE

Use the table to make a line plot.

RIBBON CUTS

Length (yards)	Number of cuts
1/8	2
3/8	1
5/8	3

1. Mark 1/8, 3/8, and 5/8 on the axis.
2. Place 2, 1, and 3 marks above those values.
3. Add a title and label the axis Length (yards).

Answer: Title: Ribbon Cuts. Axis: Length (yards). Marks: 1/8: 2; 3/8: 1; 5/8: 3.

PRACTICE 4 problems

1 Make a frequency table titled Daily Laps, labeled Laps: 1, 2, 2, 3, 1, 2.

ANSWER _____

2 Make a line plot titled Juice Pours. Label the axis Amount (cups): 1/4, 1/2, 1/4, 3/4, 1/2.

ANSWER _____

3 Make a frequency table titled Puzzle Times, labeled Time (minutes): 4, 5, 4, 6, 5, 4.

ANSWER _____

4 Make a line plot titled Trail Walks. Label the axis Distance (miles): 1, 1 1/2, 2, 1 1/2, 1.

ANSWER _____

APPLY IT Show your work

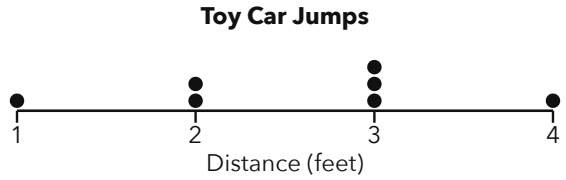
1 You cut strips for a sticker poster. Use the table to make a line plot with a title and an axis label.

STICKER STRIPS

Length (feet)	Strips
1/4	2
1/2	3
3/4	1

ANSWER _____

2 Your toy car's jumps are shown. Make a frequency table with a title and units. How many jumps were 3 feet?



ANSWER _____

CHALLENGE One step up

Practice times (minutes): 6, 6 1/2, 6, 7, 6 1/2, 6. Make a frequency table with a title and units. Which time was most common?

WORK SPACE AND ANSWER

ANSWER KEY

Count and Plot

GRADE 4 · 4.D.1.1

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Make a frequency table titled Daily Laps, labeled Laps: 1, 2, 2, 3, 1, 2.	**Daily Laps. Laps | Frequency: 1 | 2; 2 | 3; 3 | 1.**
2	Make a line plot titled Juice Pours. Label the axis Amount (cups): 1/4, 1/2, 1/4, 3/4, 1/2.	**Juice Pours. Axis: Amount (cups). Marks: 1/4: 2; 1/2: 2; 3/4: 1.**
3	Make a frequency table titled Puzzle Times, labeled Time (minutes): 4, 5, 4, 6, 5, 4.	**Puzzle Times. Time (minutes) | Frequency: 4 | 3; 5 | 2; 6 | 1.**
4	Make a line plot titled Trail Walks. Label the axis Distance (miles): 1, 1 1/2, 2, 1 1/2, 1.	**Trail Walks. Axis: Distance (miles). Marks: 1: 2; 1 1/2: 2; 2: 1.**

PART 2 · APPLY IT

1. **Sticker Strips. Axis: Length (feet). Marks: 1/4: 2; 1/2: 3; 3/4: 1.** Put each length on the axis. Place the number of marks shown in its table row above it.
2. **Toy Car Jumps. Distance (feet) | Frequency: 1 | 1; 2 | 2; 3 | 3; 4 | 1. Three jumps were 3 feet.** Count the marks above each distance. There are three marks above 3 feet.

CHALLENGE

Practice Times. Time (minutes) | Frequency: 6 | 3; 6 1/2 | 2; 7 | 1. The most common time was 6 minutes.

Accept any clear title and unit label that match the data. Students may use tally marks instead of numerals for table frequencies.