LESSON MAKER PRO

Count the Data

Find and compare frequencies in lists and plots.

GRADE 4 · 4.D.1

4.D.1 "Summarize, construct, and analyze data. Create and organize data on a frequency table or line plot marked with whole numbers and fractions using appropriate titles, labels, and units. Organize data sets to create tables, bar graphs..."

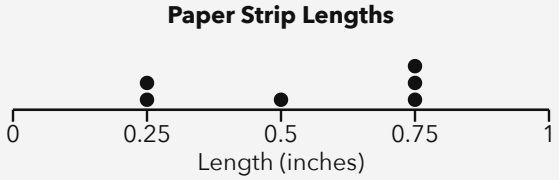
NAME _____ DATE _____

COUNT EACH MARK

Each dot on a line plot stands for one measurement. Count the dots above a value to find its frequency. Add or compare frequencies to answer a question.

WORKED EXAMPLE

How many paper strips were measured?



1. Count the dots at each length: 2, 1, and 3.
2. Add the frequencies: 2 + 1 + 3 = 6.

Answer: 6 paper strips

PRACTICE 4 problems

1 Beanbag throws (feet): 2, 3, 2, 4, 2, 3. How many throws were 2 feet?

ANSWER _____

2 Game points: 7, 9, 7, 9, 7. Write one frequency-table row for each score as 'points: players'.

ANSWER _____

3 Trail lengths (miles): 1/8, 3/8, 1/8, 5/8, 3/8, 1/8. How many more trails were 1/8 mile than 5/8 mile?

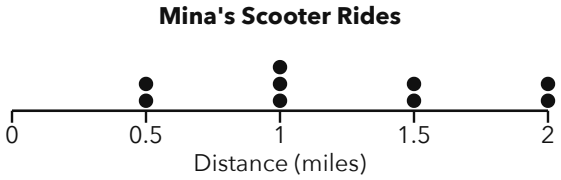
ANSWER _____

4 Jump counts: 12, 14, 12, 16, 14, 12, 16. How often did 12 and 16 each occur?

ANSWER _____

APPLY IT Show your work

1 Mina tracked her scooter rides. How many rides were at least 1 mile?



ANSWER _____

2 A smoothie stand tracks the juice used in each smoothie. How many smoothies use at least 3/8 cup?

JUICE IN SMOOTHIES

Juice used (cups)	Smoothies
1/8	2
3/8	5
5/8	3

ANSWER _____

CHALLENGE One step up

Game scores: 7, 7, 9, 9, 9, 11, 11, 11, 11. Two more players score 7. Which score is most common now? Explain.

WORK SPACE AND ANSWER

ANSWER KEY

Count the Data

GRADE 4 · 4.D.1

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Beanbag throws (feet): 2, 3, 2, 4, 2, 3. How many throws were 2 feet?	**3 throws**
2	Game points: 7, 9, 7, 9, 7. Write one frequency-table row for each score as 'points: players'.	**7: 3; 9: 2**
3	Trail lengths (miles): 1/8, 3/8, 1/8, 5/8, 3/8, 1/8. How many more trails were 1/8 mile than 5/8 mile?	**2 trails**
4	Jump counts: 12, 14, 12, 16, 14, 12, 16. How often did 12 and 16 each occur?	**12 occurred 3 times; 16 occurred 2 times.**

PART 2 · APPLY IT

1. **7 rides** Count the rides at 1, 1.5, and 2 miles. Add 3 + 2 + 2 = 7.
2. **8 smoothies** Include the 3/8-cup and 5/8-cup groups. Add 5 + 3 = 8.

CHALLENGE

7 and 11 tie. Each score now has 4 players, while 9 has 3.

Accept equivalent wording with the correct frequencies. For the challenge, the answer must name both scores in the tie.