LESSON MAKER PRO

Data Detective

Find totals and differences in tables and line plots

GRADE 4 · 4.D.1.3

4.D.1.3 "Solve one- and two-step problems by analyzing data in whole number, decimal, or fraction form in a frequency table and line plot."

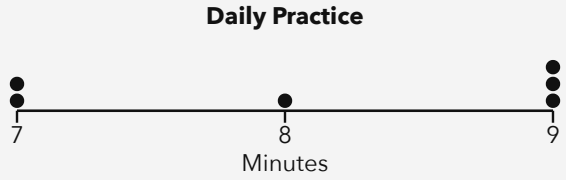
NAME _____ DATE _____

READ, THEN CALCULATE

In a line plot, each dot stands for one result. In a frequency table, the frequency tells how many times a value appears. Use the counts to find totals or differences.

WORKED EXAMPLE

How many more days had 9 minutes of practice than 8 minutes?



1. Count 3 dots above 9.
2. Count 1 dot above 8.
3. Subtract: 3 - 1 = 2.

Answer: 2 days

PRACTICE 4 problems

1 How many students read 5 books?

BOOKS READ

Books	Students
4	2
5	4
6	3

ANSWER _____

2 Use the table in problem 1. How many students are there in all?

ANSWER _____

3 Use the table in problem 1. How many books did the students in the last row read altogether?

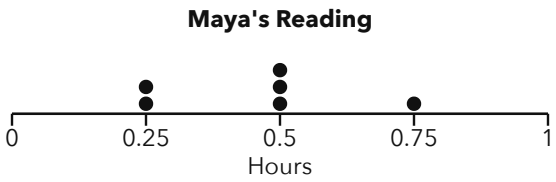
ANSWER _____

4 Use the table in problem 1. How many more books did the students in the middle row read altogether than the students in the first row?

ANSWER _____

APPLY IT Show your work

1 Each dot shows how long Maya read on one day. How many hours did she read in all?



ANSWER _____

2 Leo recorded the points he earned in each game. How many points did he earn in all?

LEO'S GAMES

Points per game	Games
10	2
20	3
30	1

ANSWER _____

CHALLENGE One step up

Each row shows a ribbon length and the number of pieces that length. How much longer are the middle-row pieces altogether than the first-row pieces altogether? Show your calculation.

RIBBON PIECES

Meters per piece	Pieces
1.2	2
1.5	3
1.8	1

WORK SPACE AND ANSWER

ANSWER KEY # Data Detective

GRADE 4 · 4.D.1.3

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	How many students read 5 books?	**4 students**
2	Use the table in problem 1. How many students are there in all?	**9 students**
3	Use the table in problem 1. How many books did the students in the last row read altogether?	**18 books**
4	Use the table in problem 1. How many more books did the students in the middle row read altogether than the students in the first row?	**12 books**

PART 2 · APPLY IT

1. **2.75 hours** Add the times shown by all six dots: 0.25 + 0.25 + 0.5 + 0.5 + 0.5 + 0.75 = 2.75 hours.
2. **110 points** Find the points earned in each row, then add: 20 + 60 + 30 = 110 points.

CHALLENGE

1.5 × 3 - 1.2 × 2 = 4.5 - 2.4 = 2.1 meters

Accept equivalent decimal or fraction answers for the reading total and ribbon difference. For the challenge, the calculation must compare the total lengths of the two rows.