

Data Detective Math

Read data displays and solve the question.

GRADE 5 • TEKS 5.9.C

5.9.C "solve one- and two-step problems using data from a frequency table, dot plot, bar graph, stem-and-leaf plot, or scatterplot."

NAME _____

DATE _____

USE THE DATA

Read the labels and key before you solve. For a one-step problem, find or combine the data you need. For a two-step problem, find the needed data first, then add, subtract, or multiply.

WORKED EXAMPLE

A frequency table shows practice minutes. How many total minutes were practiced by the students who practiced 10 minutes? Minutes practiced | Students 7 | 3 10 | 4

1. Find the practice time: 10 minutes.
2. Find its frequency: 4 students.
3. Multiply: $10 \times 4 = 40$.

Answer: 40 minutes

PRACTICE 6 problems

- 1** This frequency table shows points earned in a game. How many students earned 5 points? Points | Students 2 | 6 5 | 8

ANSWER _____

- 2** This dot plot shows how many sticker sheets students have. How many more students have 2 sticker sheets than 1 sticker sheet? Sticker sheets | Dots 1 | XX 2 | XXXXXXXX 6 | XX

ANSWER _____

- 3** This bar graph shows snack votes. How many votes did apple and cheese get altogether? Apple | ##### Popcorn | ##### Cheese | ##### Each # = 1 vote.

ANSWER _____

- 4** This stem-and-leaf plot shows quiz scores. How many students scored 21? Stem | Leaves 1 | 1 2 2 6 2 | 0 1 1 Key: 1 | 2 = 12

ANSWER _____

- 5** This scatterplot lists study hours and quiz scores. What quiz score matches 5 study hours? (study hours, quiz score) (1, 12) (2, 15) (5, 20) (6, 21)

ANSWER _____

- 6** This frequency table shows jump-rope practice. How many total minutes did the student practice on the 9-minute days? Minutes | Days 8 | 2 9 | 5 11 | 1

ANSWER _____

APPLY IT Show your work

- 1** The garden club made this bar graph of vegetables picked. How many more vegetables did the club pick from tomatoes and peppers together than from beans? Tomatoes | #####
Peppers | ##### Beans | ##### Each # = 1 vegetable.

WORK SPACE

ANSWER _____

- 2** A soccer player tracked practice days and goals scored. Each point in the scatterplot is written as (practice days, goals). How many more goals did the player score after 8 practice days than after 5 practice days? (1, 2) (5, 8) (8, 14) (11, 17)

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

A comic club made this frequency table. How many comics did all the students read altogether? Comics read | Students 12 | 2 15 | 5 18 | 6

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	This frequency table shows points earned in a game. How many students earned 5 points? Points Students 2 6 5 8	8 students
2	This dot plot shows how many sticker sheets students have. How many more students have 2 sticker sheets than 1 sticker sheet? Sticker sheets Dots 1 XX 2 XXXXXXXX 6 XX	6 students
3	This bar graph shows snack votes. How many votes did apple and cheese get altogether? Apple ##### Popcorn ##### Cheese ##### Each # = 1 vote.	11 votes
4	This stem-and-leaf plot shows quiz scores. How many students scored 21? Stem Leaves 1 1 2 2 6 2 0 1 1 Key: 1 2 = 12	2 students
5	This scatterplot lists study hours and quiz scores. What quiz score matches 5 study hours? (study hours, quiz score) (1, 12) (2, 15) (5, 20) (6, 21)	20 points
6	This frequency table shows jump-rope practice. How many total minutes did the student practice on the 9-minute days? Minutes Days 8 2 9 5 11 1	45 minutes

PART 2 • APPLY IT

- 8 vegetables** Add tomatoes and peppers: $13 + 16 = 29$. Then subtract the beans: $29 - 21 = 8$.
- 6 goals** Find the goals at 8 practice days and at 5 practice days: 14 and 8. Subtract: $14 - 8 = 6$.

CHALLENGE**207 comics**

Accept correct answers with or without units when the number is correct. For the challenge, students may show $12 \times 2 + 15 \times 5 + 18 \times 6 = 207$.