

Chart Quest

Read scaled data and solve each question.

GRADE 3 • MA.3.DP.1.2

MA.3.DP.1.2 "Interpret data with whole-number values represented with tables, scaled pictographs, circle graphs, scaled bar graphs or line plots by solving one- and two-step problems."

NAME _____

DATE _____

READ THE KEY

In a scaled graph, each picture or bar part can stand for more than one item. Read the key, count the groups, then multiply to find the total. For a two-step problem, find each amount before you add or compare.

WORKED EXAMPLE

A reading pictograph has 7 book symbols. Each book symbol stands for 8 books. How many books does the pictograph show?

1. Count the symbols: 7.
2. Each symbol stands for 8 books.
3. Multiply: $7 \times 8 = 56$.

Answer: 56 books

PRACTICE 6 problems

- 1** Leaf Count Table Plant | Number of leaves
Fern | 9 Ivy | 12 How many leaves do the
fern and ivy have altogether?

ANSWER _____

- 2** Movie Votes Pictograph Key: each ★ = 3
votes Adventure: ★★★★★ Comedy: ★★
How many votes did Adventure get?

ANSWER _____

- 3** Game Club Points Key: each ■ = 2 points
Puzzle: ■■■■■ Racing: ■■■ How
many more points did Puzzle earn than
Racing?

ANSWER _____

- 4** Plant Heights Line Plot 2 | X 3 | XX 4 | X 5 |
XXX How many plants are 3 or 5 inches tall?

ANSWER _____

- 5** Pet Shelter Table Animal | Number adopted
Cats | 18 Dogs | 9 How many fewer dogs
than cats were adopted?

ANSWER _____

- 6** A circle graph has these labeled sections
for favorite recess choices: Soccer, 12; Tag,
9; Jump Rope, 6; Drawing, 3. How many
students answered the survey?

ANSWER _____

APPLY IT Show your work

- 1** At a video game club, a scaled bar graph shows the Comets with . The key says each  = 3 points. After the graph was made, the Comets earned 9 more points. How many points do the Comets have now?

WORK SPACE

ANSWER _____

- 2** During a library reading event, a table shows Ari read 9 minutes, Nia read 12 minutes, and Zoe read 15 minutes. How many more minutes did Ari and Zoe read together than Nia?

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

A food drive pictograph shows cans collected by two rooms. Key: each  = 9 cans Room A:  Room B:  The school needs 50 cans. Do the two rooms have enough cans? Explain your reasoning.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Leaf Count Table Plant Number of leaves Fern 9 Ivy 12 How many leaves do the fern and ivy have altogether?	21 leaves
2	Movie Votes Pictograph Key: each ★ = 3 votes Adventure: ★★★★★ Comedy: ★★ How many votes did Adventure get?	15 votes
3	Game Club Points Key: each ■ = 2 points Puzzle: ■■■■■■ Racing: ■■■■ How many more points did Puzzle earn than Racing?	4 points
4	Plant Heights Line Plot 2 X 3 XX 4 X 5 XXX How many plants are 3 or 5 inches tall?	5 plants
5	Pet Shelter Table Animal Number adopted Cats 18 Dogs 9 How many fewer dogs than cats were adopted?	9 dogs
6	A circle graph has these labeled sections for favorite recess choices: Soccer, 12; Tag, 9; Jump Rope, 6; Drawing, 3. How many students answered the survey?	30 students

PART 2 • APPLY IT

- 27 points** The 6 bar parts show $6 \times 3 = 18$ points. Add 9 more points to get 27 points.
- 12 minutes** Add Ari's and Zoe's minutes: $9 + 15 = 24$. Then subtract Nia's minutes: $24 - 12 = 12$.

CHALLENGE

Yes. Room A has 36 cans and Room B has 18 cans, so they have 54 cans. That is 4 more than 50 cans.

Accept answers with the correct number and unit. For the challenge, accept any clear explanation that shows 54 total cans and 4 extra cans.