Unit 11 · Organizing and Reading Data Cheat Sheet

Unit 11 focus: sorting and showing data with tally marks

1 BIG IDEA

Sort objects into groups, then show how many are in each group with tally marks, pictures, or numbers.

2 IMPORTANT VOCABULARY

data	Information you collect, like answers to a question.	votes for a favorite fruit
sort	Put objects into groups that are alike.	sort blocks by color
category	One group in a set of data.	Apple, Banana, and Grape are categories
tally mark	A line that stands for 1. Five is four lines and a slash.	a bundle of 5 and 2 more is 7

3 HOW IT WORKS

Read the tally: 2 bundles and 1 more mark.

Example: bundles of 5
Count by fives: 5, 10
Count on 1: 11

Answer: 11

4 VISUAL MODEL

Weather

Sunny	𝍸 𝍸 |
Rainy	𝍷
Cloudy	𝍸 ||

Sunny 11, Rainy 4, Cloudy 7.

5 ★ REMEMBER THIS · WATCH OUT!

★ Remember this

- Make a tally mark for each object.
- Every fifth mark crosses the four before it.

⚠ Watch out!

- **Counting a bundle as 1:** a bundle is 5
- **Counting an object twice:** cross it off as you tally

6 TRY IT!

1. 3 bundles and 2 marks
   Answer: 17
2. Show 8 with tallies
   Answer: 1 bundle and 3 marks

Answers are printed upside down. Turn the page to check!

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More practice: reading picture graphs and tables and answering questions

1 BIG IDEA

Read each category carefully. Add to find how many in all. Subtract to compare two categories.

2 IMPORTANT VOCABULARY

picture graph	A graph that uses pictures to show data.	each star stands for 1
table	Rows and columns of data.	Red 7, Blue 4, Green 9
tally chart	A chart that uses tally marks to show data.	Dogs: 6 tally marks
in all	The total of all the categories.	7 + 4 + 9 = 20 in all

3 HOW IT WORKS

Apple 5, Banana 3, Grape 7. How many more chose Grape than Banana?

Example: 7 and 3
Grape: 7
7 − 3 = 4

Answer: 4 more

4 VISUAL MODEL



Each star stands for 1 vote.

5 ★ REMEMBER THIS · WATCH OUT!

★ Remember this

- In all: add all the categories.
- How many more or fewer: subtract.

⚠ Watch out!

- **Reading the wrong row:** point to the label first
- **Adding for “how many more”:** subtract to compare

6 TRY IT!

1. How many in all? 5, 3, 7
   Answer: 15
2. Apple 5, Banana 3. How many fewer bananas?
   Answer: 2

Answers are printed upside down. Turn the page to check!