Unit 11 · Picture Graphs and Bar Graphs Cheat Sheet

Unit 11 focus: reading picture graphs and bar graphs

1 Big Idea

In a picture graph each picture stands for 1. In a bar graph, read the number where the top of the bar lines up with the scale.

2 Important Vocabulary

picture graph	A graph that uses pictures to show data.	each star stands for 1 vote
bar graph	A graph that uses bars to show data.	a bar up to 7 means 7
scale	The numbers along a bar graph.	0, 1, 2, 3 … (counting by 1s)
key	Tells what each picture stands for.	★ = 1 vote

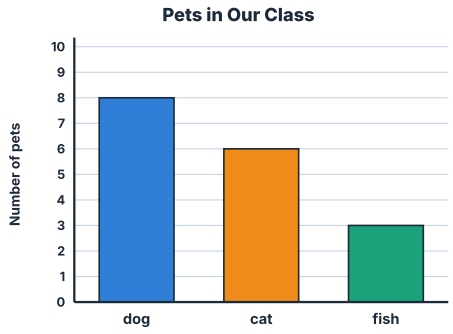
3 How It Works

Read the bar graph: the cat bar ends at 6.

Example: cat bar
Top of the bar: lines up with 6
So: 6 cats

Answer: 6 cats

4 Visual Model



Dog 8, cat 6, fish 3.

5 ★ Remember This · Watch Out!

★ Remember this

- Start the scale at 0.
- Point to each picture as you count.

⚠ Watch out!

- **Counting grid lines from 1:** read the number at the top of the bar
- **Wrong row or bar:** read the label first

6 Try It!

1. Dog and fish together
   Answer: 11
2. How many more dogs than cats?
   Answer: 2

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

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More practice: solving problems with graphs and making graphs from data

1 Big Idea

Use the graph to put together, take apart, or compare. Make a graph from a tally chart with a title, labels, and a scale of 1.

2 Important Vocabulary

tally chart	A chart that uses tally marks to count.	a bundle of 5 marks
data	Information you collect, like votes or counts.	votes for favorite fruit
category	A group in the data.	dog, cat, fish, bird
title	The name of a graph that tells what it shows.	Favorite Fruit

3 How It Works

Make a bar graph from the tally: apple 7, pear 12, plum 4.

Example: tally chart
Title and labels: Favorite Fruit
Scale: 0 to 12 by 1s
Bars: 7, 12, 4

Answer: 3 bars

4 Visual Model

Favorite Fruit

apple	𝍸 ||
pear	𝍸 𝍸 ||
plum	||||

Each bundle of tally marks is 5.

5 ★ Remember This · Watch Out!

★ Remember this

- How many more: subtract.
- In all: add every category.

⚠ Watch out!

- **Adding to compare:** how many more means subtract
- **Missing title or labels:** check every part of the graph

6 Try It!

1. How many votes in all: 7, 12, 4?
   Answer: ƐZ
2. How many more pear than plum?
   Answer: 8

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