

Graph Detectives

Students sort classroom objects, help make graphs, and read the data.

1.8 "Data analysis. The student applies mathematical process standards to organize data to make it useful for interpreting information and solving problems. The student is expected to: collect, sort..."

NAME _____

DATE _____

Teacher: this page is run aloud. The script and answers are on the guide page.

1 BUILD GRAPHS

Pencils

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Clips

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Books

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2 READ DATA

a

Pencils

Clips

Books

b

● ●

● ● ● ●

● ● ●

c

Pencils

Books

Clips

HOW TO RUN THIS PAGE

Before Part 1, prepare the object groups described in the answer key. Guide students as they sort the objects and make both a picture graph and a bar graph on the board. Read every prompt aloud and give students time to make each mark.

Students never read directions on this sheet. Read each part's script aloud, then each prompt, giving think time before students mark.

PART 1 • BUILD GRAPHS

SAY “Help me sort these pencils, paper clips, and books into three groups, then help me make a picture graph and a bar graph on the board. Look at our two graphs, how many are in each group? Write each number in the box by its word. What question can we ask about our graphs?”

- Box 1 (beside Pencils): **2**
- Box 2 (beside Clips): **4**
- Box 3 (beside Books): **3**

PART 2 • READ DATA

SAY “Look at the graphs we made. Listen to each question, then circle one answer in each row.”

ROW	SAY	STUDENTS CIRCLE
a	Which group has the most? Read the words with me: Pencils, Clips, Books. Circle the word that answers the question.	Clips
b	How many books are in the graphs? Count the dots: two, four, three. Circle the dots that show how many.	3 dots
c	Which group has the fewest? Read the words with me: Pencils, Books, Clips. Circle the word that answers the question.	Pencils

WHAT TO ACCEPT

Set out 2 pencils, 4 paper clips, and 3 books. Students should write 2, 4, 3 in the boxes and circle Clips, 3 dots, and Pencils in the three rows.