Desk Data Detectives

Students build a real-object graph and use it to compare two groups.

K.D.1 "Collect, organize, and interpret categorical data. Collect and organize information about objects and events in the environment. Use categorical data to create real-object graphs and pictographs..."

NAME _____ DATE _____

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

1 MAKE A GRAPH

pencils	
clips	

2 READ THE GRAPH

a	**pencils**	**clips**	**same**
b	**pencils**	**same**	**clips**
c	**2**	**3**	**1**

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HOW TO RUN THIS PAGE

Prepare one mixed set of pencils and paper clips for each group, using the amounts in the answer key notes. Students sort the objects into aligned rows to make a real-object graph, then record and compare the groups.

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

PART 1 · MAKE A GRAPH

SAY "Sort the pencils and paper clips into two straight rows. Line up the first pencil and clip, the second pencil and clip, and so on. How many are in each row? Write each number in its box."

- Box 1 (beside pencils): **3**
- Box 2 (beside clips): **4**

PART 2 · READ THE GRAPH

SAY "Keep your rows of objects in place. Look at them to answer each question, then circle one choice."

ROW	SAY	STUDENTS CIRCLE
a	Which group has more: pencils, clips, or are they the same? Circle your choice.	**clips**
b	Which group has fewer: pencils, clips, or are they the same? Circle your choice.	**pencils**
c	How many more clips than pencils are there? Circle the number.	**1**

WHAT TO ACCEPT

For each group, mix three pencils and four paper clips before students begin. Accept 3 and 4 in the boxes; the circled answers are clips, pencils, and 1, in that order.