

Paper Size Graph

Teacher-led sorting, picture graphing, and graph reading with paper rectangles.

K.PS.1 "The student will apply the data cycle (pose questions; collect or acquire data; organize and represent data; and analyze data and communicate results) with a focus on object graphs and picture graphs..."

NAME _____

DATE _____

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

1 MAKE GRAPH _____

Large

Small

2 READ GRAPH _____

a

● ● ●

● ● ● ●

● ● ● ● ●

b

● ●

● ● ● ●

● ● ●

c

Large

Small

Same

HOW TO RUN THIS PAGE

Before starting, place four whole paper sheets and three half sheets where students can see them. Students sort the paper rectangles by size into an object graph, draw a one-to-one picture graph, and use it to compare the two 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 GRAPH

SAY “Here are paper rectangles in two sizes. What question could we ask about their sizes, and what do we need to count to answer it? Help me sort the rectangles into a Large row and a Small row, count each row, then can you draw one small circle in each matching box for every rectangle in that row?”

- Box 1 (beside Large): **4 small circle marks**
- Box 2 (beside Small): **3 small circle marks**

PART 2 • READ GRAPH

SAY “Look at the circles you drew. I will read the choices in each row. Which choice answers each question?”

ROW	SAY	STUDENTS CIRCLE
a	How many large paper rectangles are in your graph? Circle the dots that show how many.	4 dots
b	How many small paper rectangles are in your graph? Circle the dots that show how many.	3 dots
c	Which size group has more paper rectangles? I will read the words. Circle the word that tells your answer.	Large

WHAT TO ACCEPT

Accept an oral question about how many large and small paper rectangles there are, and accept counting the rectangles as the needed data. Students should draw four marks for Large and three marks for Small, then circle 4, 3, and Large.