Our Shape Data

Ask, sort real objects, draw a graph, and compare.

1.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, picture graphs, and tables..."

NAME _____ DATE _____

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

1 COUNT OUR SHAPES

Our question: _____

Circles

Squares

Triangles

2 DRAW AND TELL

Key: one dot = one item. Start each row at the same line.

Category	Draw dots	Count
Circles	_____	____
Squares	_____	____
Triangles	_____	____

Total

More

My idea

ANSWER KEY

Our Shape Data

GRADE 1 · 1.PS.1

HOW TO RUN THIS PAGE

Provide a mixed bag of 12 safe shape pieces: 5 circles, 4 squares and 3 triangles, varying color and size. Do not announce the category counts. Ask the child to pose a question about how many of each shape are in the bag, then record that question. Children sort by shape, align objects from a shared baseline, and record the observed counts. Read all text aloud; scribe oral responses.

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

PART 1 · COUNT OUR SHAPES

SAY "Tell me a question about the shapes in our bag. I will write it above the table. Sort the actual pieces by shape. Name the property you used. Count each category and write its number. Arrange each category in a row with one piece per equal space, starting at the same line."

- Box 1 (beside Circles): **5**
- Box 2 (beside Squares): **4**
- Box 3 (beside Triangles): **3**

PART 2 · DRAW AND TELL

SAY "Draw one dot for each object in the matching table row. Then answer: How many pieces altogether? How many more circles than triangles? Tell one conclusion about this bag and a prediction about one piece taken without looking. Explain which data support it."

- Box 1 (beside Total): **12**
- Box 2 (beside More): **2**
- Box 3 (beside My idea): **Circles are most numerous; a circle is more likely than either other shape, but not certain.**

WHAT TO ACCEPT

Observe the actual sort and aligned object graph; a copied numeral alone is insufficient. Picture graph counts 5,4,3, with one dot per object; table total 12. Accept alternative supported conclusions and uncertainty-aware predictions. The set uses 12 observations and three categories.