


11. Classify and Count Patterned Shapes

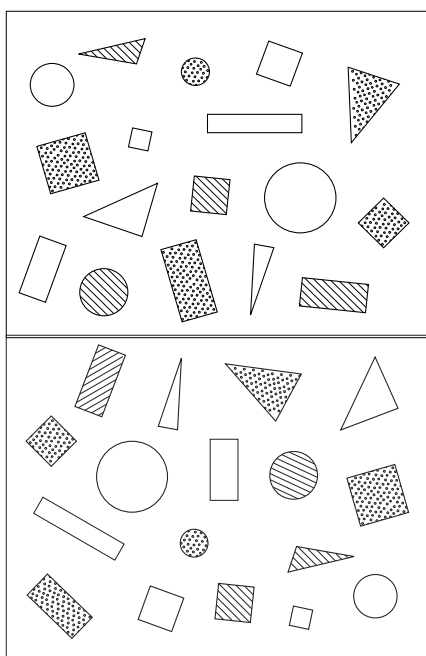
- RECOGNIZE BASIC GEOMETRIC SHAPES
- SORT OBJECTS WITHIN A GROUP BY TWO ATTRIBUTES
- PLACE BLOCKS WITH ONE-TO-ONE CORRESPONDENCE
- COUNT BLOCKS
- WRITE NUMBERS

STUDENT NEEDS:

40 single blocks

2 copies of worksheet put together as one beforehand

 20 minutes



GROUP ACTIVITY:

1. Pass out worksheets. (Tape the two worksheets together side by side beforehand.) Review the names and properties of circles, squares, rectangles and triangles.
2. Point out the different patterns within each shape and give each a name (i.e. plain/blank/white, spotted/polka-dotted, and striped/lined).
3. Instruct students to place one block on each spotted shape.
4. Students count their blocks (10).
5. Instruct students to place one block on each spotted square.
6. Students count their blocks (4).
7. Repeat, asking students to place one block on each shape of particular subsets, such as:
 - dotted triangles (2)
 - plain squares (4)
 - all squares (10)
 - dotted rectangles (2)
 - striped squares (2)
 - all dotted shapes (10)
 - striped circles (2)
 - plain triangles (4)
 - dotted squares (4)
 - all rectangles (8)
 - all plain shapes (12)
 - all circles (8)
 - plain squares (4)
 - striped triangles (2)
 - all striped shapes (8)
 - plain rectangles (4)
 - all triangles (8)
 - dotted circles (2)
 - striped rectangles (2)
 - plain circles (4)
 - all shapes (34)

Assessment:

DOES THE STUDENT:

- identify each geometric shape correctly
- classify and sort patterned shapes by two attributes correctly
- count the blocks accurately

Differentiation:

REINFORCEMENT:

- When giving a direction (i.e. “Place one block on each dotted circle”), draw a dotted circle on the board.
- Before beginning the activity, instruct students to color each striped shape yellow, each dotted shape blue, and each plain shape red. Then give directions with colors instead of patterns.
- In small groups, count each set of blocks together in unison.

EXTENSION:

- Have students, for example, place a block on every shape that is spotted or is a circle (including spotted shapes that are not circles and circles that are not spotted).
- Cut out two worksheets of shapes and use shoelace loops to illustrate sets with Venn Diagrams.

