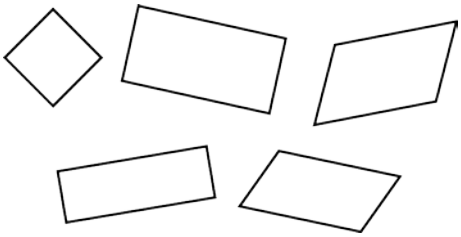
Content Standard	***MAFS.3.G Geometry*** ***MAFS.3.G.1*** Reason with shapes and their attributes. **MAFS.3.G.1.1** Understand that shapes in different categories (e.g., rhombuses, rectangles, and others) may share attributes (e.g., having four sides), and that the shared attributes can define a larger category (e.g., quadrilaterals). Recognize rhombuses, rectangles, and squares as examples of quadrilaterals, and draw examples of quadrilaterals that do not belong to any of these subcategories.
Assessment Limits	Shapes may include two dimensional shapes and the following quadrilaterals in particular: rhombus, rectangle, square, parallelogram, trapezoid. Attributes include: number of sides, number of angles, whether the shape has a right angle, whether the sides are the same length, whether the sides are straight lines. Do not include references to parallel or perpendicular sides — this is assessed in grade 4.
Calculator	No
Acceptable Response Mechanisms	Graphic Response – Drawing/Graphing Matching Item Response Multi-Select Response Multiple Choice Response Natural Language Response
Context	No context

Example	
Context	A set of shapes is shown.
Context easier	Decrease the number of shapes to 1-2, include only traditional orientation.
Context more difficult	Increase the number of shapes to 5-6, include all shapes in nontraditional orientation.

Sample Item Stem	Response Mechanism	Notes, Comments
A square and a trapezoid are shown below. Which properties do these shapes have in common?	Multi-Select Response	

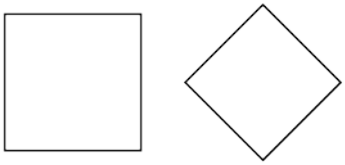
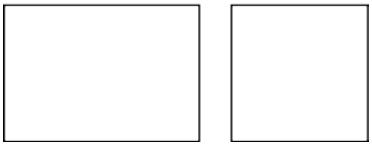
<table>
<tr><td>A set of shapes is shown.
 
Which properties do they have in common?</td><td>Multi-Select Response</td><td></td></tr>
<tr><td>Select the shapes that are quadrilaterals and not rectangles.

o Rhombus
o Parallelogram
o Triangle
o Trapezoid
o Square</td><td>Multi-Select Response</td><td></td></tr>
<tr><td>Select the shapes that have one right angle, sides of different lengths, not rectangles, and quadrilaterals.

o Rhombus
o Parallelogram
o Triangle
o Trapezoid
o Square</td><td>Multi-Select Response</td><td></td></tr>
<tr><td>Draw a quadrilateral that is not a rectangle.</td><td>Graphing Response – Drawing/Graphing</td><td></td></tr>
<tr><td>Draw a quadrilateral with
- one right angle, and
- 2 sides of the same length.</td><td>Graphing Response – Drawing/Graphing</td><td></td></tr>
<tr><td>What is the name of a shape that is
- a quadrilateral, and
- not a rectangle?</td><td>Multiple Choice Response</td><td></td></tr>
<tr><td>For each shape, select the properties that apply.

<table><tr><td></td><td> </td><td> </td></tr><tr><td>has four sides</td><td></td><td></td></tr><tr><td>has two pairs of parallel sides</td><td></td><td></td></tr></table></td><td>Matching Item Response</td><td>Including 2 shapes and 2 properties makes it an easy item.

Classifying shapes based on properties determines DOK2.</td></tr>
</table>

A group of shapes was sorted into two groups. **Group 1**  **Group 2**  Explain a rule that could have been used to group the shapes this way.	Natural Language Response	