









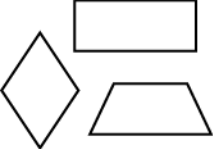

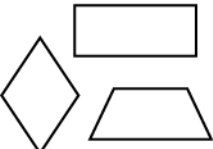
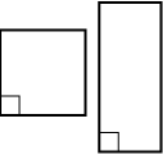
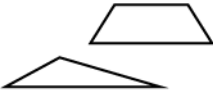
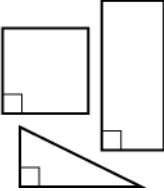


Content Standard	<p>MAFS.4.G Geometry</p> <p>MAFS.4.G.1 Draw and identify lines and angles, and classify shapes by properties of their lines and angles.</p> <p>MAFS.4.G.1.2 Classify two-dimensional figures based on the presence or absence of parallel or perpendicular lines, or the presence or absence of angles of a specified size. Recognize right triangles as a category, and identify right triangles.</p>	
Assessment Limits	<p>Triangles: right triangles, acute triangles, obtuse triangles, scalene triangles, isosceles triangles, and equilateral triangles.</p> <p>Quadrilaterals: parallelograms, rectangles, squares, rhombi, trapezoids.</p> <p>Other polygons may be included where appropriate.</p>	
Calculator	No	
Acceptable Response Mechanisms	<p>Graphic Response – Drawing/Graphing</p> <p>Matching Item Response</p> <p>Multi-Select Response</p> <p>Multiple Choice Response</p> <p>Natural Language Response</p>	
Context	No Content	
Example		
Context	A set of figures (two attributes).	
Context easier	<p>Limit to one attribute.</p> <p>Only use shapes in traditional orientation (e.g., base of isosceles triangle is horizontal at the bottom).</p>	
Context more difficult	<p>More than two attributes.</p> <p>Include a variety of orientations.</p>	
Sample Item Stem	Response Mechanism	Notes, Comments
<p>A set of triangles is shown.</p> <p>Select all the obtuse triangles.</p>	Multi-Select Response	

Grade 4 Mathematics Item Specifications
Florida Standards Assessments

<ul style="list-style-type: none"><input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> 		
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<p>A set of triangles is shown.</p> <p>Select all the right isosceles triangles.</p> <p><input type="radio"/> </p> <p><input type="radio"/> </p> <p><input type="radio"/> </p> <p><input type="radio"/> </p> <p><input type="radio"/> </p>	<p>Multi-Select Response</p>																	
<p>A set of shape names is given.</p> <p>Select all the shapes that always contain perpendicular lines.</p> <ul style="list-style-type: none"> <input type="radio"/> Right triangle <input type="radio"/> Isosceles triangle <input type="radio"/> Rectangle <input type="radio"/> Obtuse triangle <input type="radio"/> Rhombus 	<p>Multi-Select Response</p>																	
<p>Names of shapes with properties are shown.</p> <p>Select all the properties that belong to each shape.</p> <table border="1" data-bbox="191 1394 786 1675"> <thead> <tr> <th></th> <th>Has a right angle</th> <th>Has perpendicular lines</th> <th>Has parallel lines</th> </tr> </thead> <tbody> <tr> <td>Right Triangle</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Isosceles Triangle</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Rectangle</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		Has a right angle	Has perpendicular lines	Has parallel lines	Right Triangle				Isosceles Triangle				Rectangle				<p>Matching Item Response</p>	
	Has a right angle	Has perpendicular lines	Has parallel lines															
Right Triangle																		
Isosceles Triangle																		
Rectangle																		

<p>The shapes have been sorted into two groups.</p> <p>Group 1</p>  <p>Group 2</p>  <p>Explain what attribute was used to sort the shapes.</p>	<p>Natural Language Response</p>	
<p>The shapes have been sorted into two groups.</p> <p>Group 1</p>  <p>Group 2</p>  <p>Explain what two attributes were used to sort the shapes.</p>	<p>Natural Language Response</p>	
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