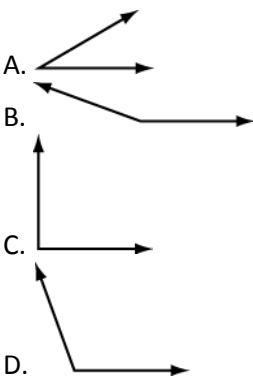
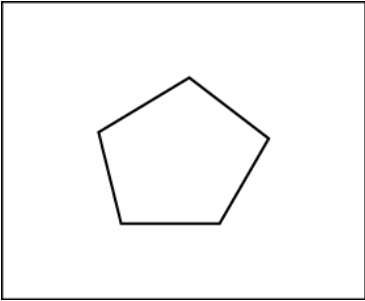








Content Standard		MAFS.4.G Geometry MAFS.4.G.1 Draw and identify lines and angles, and classify shapes by properties of their lines and angles. MAFS.4.G.1.1 Draw points, lines, line segments, rays, angles (right, acute, obtuse), and perpendicular and parallel lines. Identify these in two-dimensional figures.	
Assessment Limits		All objects (point, line, line segment, angles) and properties (right, acute, obtuse, perpendicular, parallel) noted in the standard, as individual objects, or within two-dimensional figures.	
Calculator		No	
Acceptable Response Mechanisms		Graphic Response – Drawing/Graphing, Hot Spot Matching Item Response Multi-Select Response Multiple Choice Response	
Context		Allowable	
Example			
Context		Draw a shape with exactly one acute angle. (basic objects considered in the context of more complex figure.)	
Context easier		Limit to one basic object as noted by the standard. Lines are shown horizontally/vertically. Angles are shown in traditional orientations (one arm is horizontal). Arms of all angles the same length.	
Context more difficult		Lines are shown in nontraditional orientations (not horizontal/vertical). Angles are shown in nontraditional orientations (no arm is horizontal).	
Sample Item Stem		Response Mechanism	Notes, Comments
Several angles are shown. Which angle is acute? 		Multiple Choice Response	

<p>A shape is shown.</p>  <p>Click to show all the obtuse angles in the shape.</p>	<p>Graphic Response – Hot Spot</p>																
<p>A set of lines is shown.</p> <p>Select all the attributes that apply to each set of lines.</p> <table border="1" data-bbox="190 858 670 1339"> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td>Contains Parallel Line</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Contains Perpendicular Line</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Contains Acute Angle</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Contains Obtuse Angle</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </table>				Contains Parallel Line	<input type="checkbox"/>	<input type="checkbox"/>	Contains Perpendicular Line	<input type="checkbox"/>	<input type="checkbox"/>	Contains Acute Angle	<input type="checkbox"/>	<input type="checkbox"/>	Contains Obtuse Angle	<input type="checkbox"/>	<input type="checkbox"/>	<p>Matching Item Response</p>	
																	
Contains Parallel Line	<input type="checkbox"/>	<input type="checkbox"/>															
Contains Perpendicular Line	<input type="checkbox"/>	<input type="checkbox"/>															
Contains Acute Angle	<input type="checkbox"/>	<input type="checkbox"/>															
Contains Obtuse Angle	<input type="checkbox"/>	<input type="checkbox"/>															
<p>A. Use the Connect Line tool to draw an acute angle.</p> <p>B. Use the Connect Line tool to draw an obtuse angle.</p>	<p>Graphic Response – Drawing/Graphing</p>																

Grade 4 Mathematics Item Specifications
Florida Standards Assessments

