

Geometry EOC Item Specifications
Florida Standards Assessments

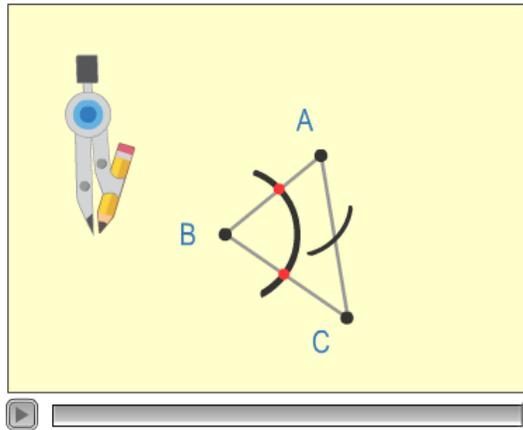
<p>MAFS.912.G-CO.4.12</p> <p>Also assesses MAFS.912.G-CO.4.13</p>	<p>Make formal geometric constructions with a variety of tools and methods (compass and straightedge, string, reflective devices, paper folding, dynamic geometric software, etc.). <i>Copying a segment; copying an angle; bisecting a segment; bisecting an angle; constructing perpendicular lines, including the perpendicular bisector of a line segment; and constructing a line parallel to a given line through a point not on the line.</i></p> <p>Construct an equilateral triangle, a square, and a regular hexagon inscribed in a circle.</p>
<p>Item Types</p>	<p>Editing Task Choice – May require choosing a statement in a description of a construction.</p> <p>GRID – May require sequencing the steps of a construction or dragging and dropping steps to complete a viable geometric argument.</p> <p>Hot Text – May require dragging and dropping text to complete a viable geometric argument.</p> <p>Multiselect – May require identifying the steps of a construction from a stem animation.</p> <p>Open Response – May require explaining the steps of a construction.</p>
<p>Clarifications</p>	<p>Students will identify the result of a formal geometric construction.</p> <p>Students will determine the steps of a formal geometric construction.</p>
<p>Assessment Limits</p>	<p>Constructions are limited to copying a segment; copying an angle; bisecting a segment; bisecting an angle; constructing perpendicular lines, including the perpendicular bisector of a line segment; constructing a line parallel to a given line through a point not on the line; constructing an equilateral triangle inscribed in a circle; constructing a square inscribed in a circle; and a regular hexagon inscribed in a circle.</p> <p>Constructions are limited to the use of a formal compass and a straightedge.</p> <p>Items should not ask student to find values or use properties of the geometric figure that is constructed.</p>
<p>Stimulus Attribute</p>	<p>Items may be set in a real-world or mathematical context.</p>
<p>Response Attributes</p>	<p>Items may require the student to justify why a construction results in the geometric figure.</p> <p>Items may require the student to use or choose the correct unit of measure.</p> <p>Items may require the student to provide steps for a construction.</p>
<p>Calculator</p>	<p>Neutral</p>

Sample Item

Item Type

Multiple Choice

Ruben carries out a construction using $\triangle ABC$. Click the play button to see a part of his construction.



What will be the result of Reuben's construction?

- Ⓐ Ruben constructs a segment perpendicular to \overline{AC} .
- Ⓑ Ruben constructs the bisector of \overline{AC} .
- Ⓒ Ruben constructs an angle congruent to $\angle B$.
- Ⓓ Ruben constructs the bisector of $\angle B$.