

Geometry EOC Item Specifications
Florida Standards Assessments

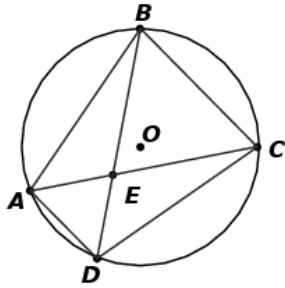
MAFS.912.G-C.1.3	Construct the inscribed and circumscribed circles of a triangle, and prove properties of angles for a quadrilateral inscribed in a circle.
Item Types	<p>Editing Task Choice – May require choosing a step in construction or a property within an informal argument.</p> <p>Equation Editor – May require creating numerical values, expressions, or equations.</p> <p>GRID – May require creating a circle or ordering steps or properties.</p> <p>Hot Text – May require dragging text to complete a justification or to reorder steps.</p> <p>Matching Item – May require identifying properties of inscribed and circumscribed circles of a triangle.</p> <p>Multiple Choice – May require selecting a value or an expression from a list.</p> <p>Multiselect – May require selecting responses.</p> <p>Open Response – May require explaining the validity of a proof.</p>
Clarifications	<p>Students will construct a circle inscribed inside a triangle.</p> <p>Students will construct a circle circumscribed about a triangle.</p> <p>Students will solve problems using the properties of inscribed and circumscribed circles of a triangle.</p> <p>Students will use or justify properties of angles of a quadrilateral that is inscribed in a circle.</p>
Assessment Limit	Items may include problems that use the incenter and circumcenter of a triangle.
Stimulus Attribute	Item may be set in real-world or mathematical context.
Response Attributes	<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>Items may require the student to give statements and/or justifications to complete formal and informal proofs.</p>
Calculator	Neutral

Sample Item

Item Type

GRID – Hot Spot

Trapezoid $ABCD$ is inscribed in circle O . Diagonals \overline{BD} and \overline{AC} meet at point E and \overline{AD} is parallel to \overline{BC} , as shown.



Select the angles and value that make a true statement about trapezoid $ABCD$.

$$m\angle \begin{matrix} \square \\ \text{ABC} \\ \text{ABE} \\ \text{ADC} \\ \text{ADE} \\ \text{CEB} \\ \text{EAD} \end{matrix} = \begin{matrix} \square \\ 90^\circ \\ 180^\circ \end{matrix} - m\angle \begin{matrix} \square \\ \text{ABC} \\ \text{ABE} \\ \text{ADC} \\ \text{ADE} \\ \text{CEB} \\ \text{EAD} \end{matrix}$$