

Geometry EOC Item Specifications  
Florida Standards Assessments

MAFS.912.G-MG.1.2	Apply concepts of density based on area and volume in modeling situations (e.g., persons per square mile, BTUs per cubic foot).
Item Types	Equation Editor – May require identifying a value.  Editing Task Choice – May require choosing a statement or units.  Matching Item – May require choosing true values and units that model density.  Multiple Choice – May require selecting from choices.  Open Response – May require explaining a model.
Clarifications	Students will apply concepts of density based on area in modeling situations.  Students will apply concepts of density based on volume in modeling situations.
Assessment Limit	Items may require the student to use knowledge of other Geometry standards.
Stimulus Attribute	Items must be set in a real-world context.
Response Attributes	Items may require the student to apply the basic modeling cycle.  Items may require the student to use or choose the correct unit of measure.
Calculator	Neutral

Sample Item	Item Type												
<p style="text-align: right;">Equation Editor</p> <p>The population of Florida in 2010 was 18,801,310 and the land area was 53,625 square miles. The population increased 5.8% by 2014.</p> <p>A. To the nearest whole number, what is the population density, in people per square mile, for Florida in 2014?</p> <p>B. To the nearest whole number, how much did the population density, in people per square mile, increase from 2010 to 2014?</p> <p>A. <input type="text"/></p> <p>B. <input type="text"/></p> <div data-bbox="196 642 1425 894"><p>← → ↶ ↷ ✖</p><table border="1"><tbody><tr><td>1</td><td>2</td><td>3</td></tr><tr><td>4</td><td>5</td><td>6</td></tr><tr><td>7</td><td>8</td><td>9</td></tr><tr><td>0</td><td>.</td><td>-</td></tr></tbody></table></div>		1	2	3	4	5	6	7	8	9	0	.	-
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