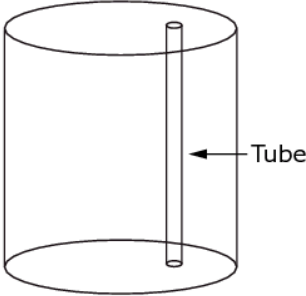


Geometry EOC Item Specifications
Florida Standards Assessments

MAFS.912.G-MG.1.3	Apply geometric methods to solve design problems (e.g., designing an object or structure to satisfy physical constraints or minimize cost; working with typographic grid systems based on ratios).
Item Types	<p>Editing Task Choice – May require choosing a statement in a description.</p> <p>Equation Editor – May require expressing a numerical value or creating an equation that models a given situation.</p> <p>GRID – May require constructing a figure.</p> <p>Hot Text – May require rearranging statements about a solution or a model.</p> <p>Open Response – May require explaining a model.</p>
Clarification	Students will apply geometric methods to solve design problems.
Assessment Limits	<p>Items may require the student to use knowledge of other Geometry standards.</p> <p>Items that use volume should not also assess G-GMD.1.3 or G-MG.1.1.</p>
Stimulus Attribute	Items must be set in a real-world context.
Response Attributes	<p>Items may require the student to interpret the results of a solution within the context of the modeling situation.</p> <p>Items may require the student to apply the basic modeling cycle.</p> <p>Items may require the student to use or choose the correct unit of measure.</p>
Calculator	Neutral

Sample Item	Item Type																																																
Equation Editor																																																	
<p>The trunk of a palm tree has cylindrical tubes that carry water. Each tube is 0.0003 meters wide. One of the tubes in a palm tree trunk is shown.</p> <div style="text-align: center; margin: 10px 0;">  </div> <p>Palm Tree Trunk</p> <p>A. Using the diagram as a model, approximately how many tubes could fit in a palm tree trunk with a diameter of 0.5 meters?</p> <p>B. The tubes in a palm tree are between 20 to 21 meters long. What is the approximate volume, in cubic meters, of one tube?</p> <p>A. <input style="width: 150px; height: 20px;" type="text"/></p> <p>B. <input style="width: 150px; height: 20px;" type="text"/></p> <div style="border: 1px solid #ccc; padding: 5px; margin-top: 10px;"> <div style="border-bottom: 1px solid #ccc; padding-bottom: 5px;"> ← → ↶ ↷ ✖ </div> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td>1</td><td>2</td><td>3</td><td>+</td><td>-</td><td>•</td><td>÷</td><td colspan="5"></td> </tr> <tr> <td>4</td><td>5</td><td>6</td><td><</td><td>≤</td><td>=</td><td>≥</td><td>></td><td colspan="4"></td> </tr> <tr> <td>7</td><td>8</td><td>9</td><td>$\frac{\square}{\square}$</td><td>\square^\square</td><td>\square_\square</td><td>()</td><td> </td><td>$\sqrt{\square}$</td><td>$\sqrt[\square]{\square}$</td><td>π</td><td>i</td> </tr> <tr> <td>0</td><td>.</td><td>-</td><td>sin</td><td>cos</td><td>tan</td><td>arcsin</td><td>arccos</td><td>arctan</td><td colspan="3"></td> </tr> </table> </div>		1	2	3	+	-	•	÷						4	5	6	<	≤	=	≥	>					7	8	9	$\frac{\square}{\square}$	\square^\square	\square_\square	()		$\sqrt{\square}$	$\sqrt[\square]{\square}$	π	i	0	.	-	sin	cos	tan	arcsin	arccos	arctan			
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