

Grade 8 Mathematics Item Specifications
Florida Standards Assessments

Content Standard	<p>MAFS.8.NS <i>The Number System</i></p> <p>MAFS.8.NS.1 <i>Know that there are numbers that are not rational, and approximate them by rational numbers.</i></p> <p>MAFS.8.NS.1.1 <i>Know that numbers that are not rational are called irrational. Understand informally that every number has a decimal expansion; for rational numbers show that the decimal expansion repeats eventually, and convert a decimal expansion which repeats eventually into a rational number.</i></p>	
Assessment Limits	<p>All irrational numbers may be used, excluding e.</p> <p>Only rational numbers with repeating decimal expansions up to thousandths may be used.</p>	
Calculator	No	
Item Types	<p>Editing Task Choice Equation Editor Hot Text Matching Item Multiple Choice Multiselect Open Response</p>	
Context	No Context	
Sample Item		Item Type
Select all numbers that are irrational.	<input type="checkbox"/> $\frac{1}{3}$ <input type="checkbox"/> $\sqrt{2}$ <input type="checkbox"/> π <input type="checkbox"/> $\frac{2}{9}$ <input type="checkbox"/> $\sqrt{3}$	Multiselect
Which number is irrational?	<p>A. $\sqrt{64}$</p> <p>B. $\frac{1}{2}$</p> <p>C. $\frac{\sqrt{16}}{4}$</p> <p>D. $\frac{\sqrt{20}}{5}$</p>	Multiple Choice
What is $0.\overline{36}$ written as a fraction?		Equation Editor
See Appendix for the practice test item aligned to this standard.		