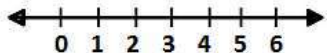


Content Standard	<p>MAFS.8.NS <i>The Number Systems</i></p> <p>MAFS.8.NS.1 <i>Know that there are numbers that are not rational, and approximate them by rational numbers.</i></p> <p>MAFS.8.NS.1.2 <i>Use rational approximations of irrational numbers to compare the size of irrational numbers, locate them approximately on a number line diagram, and estimate the value of expressions (e.g., π^2). For example, by truncating the decimal expansion of $\sqrt{2}$, show that $\sqrt{2}$ is between 1 and 2, then between 1.4 and 1.5, and explain how to continue on to get better approximations.</i></p>	
Assessment Limits	<p>All irrational numbers may be used, excluding e. Irrational expressions should only use one operation.</p>	
Calculator	<p>No</p>	
Item Types	<p>Equation Editor GRID Multiple Choice Multiselect Open Response</p>	
Context	<p>No context</p>	
Sample Item		Item Type
What is the approximate value of $\sqrt{3}$, to the nearest whole number?		Equation Editor
<p>What is the approximate value of $\sqrt{12}$?</p> <p>A. 2 B. 3.5 C. 4.5 D. 6</p>		Multiple Choice
<p>A number line is shown.</p> <p>Place the following numbers in the proper location on the number line.</p>  <ul style="list-style-type: none"> • $\sqrt{3}$ • $\sqrt{8}$ • $\sqrt{23}$ 		GRID
<p>See Appendix for the practice test item aligned to this standard.</p>		