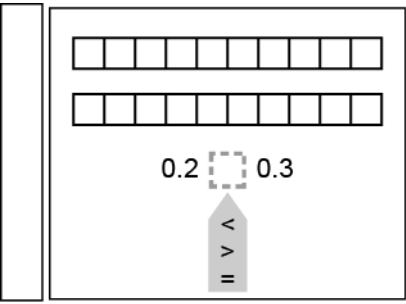
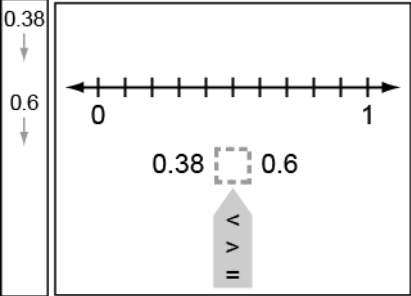
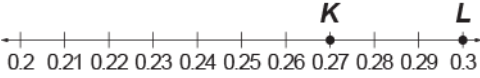


Content Standard	<p>MAFS.4.NF <i>Number and Operations - Fractions</i></p> <p>MAFS.4.NF.3 <i>Understand decimal notation for fractions, and compare decimal fractions.</i></p> <p>MAFS.4.NF.3.7 Compare two decimals to hundredths by reasoning about their size. Recognize that comparisons are valid only when the two decimals refer to the same whole. Record the results of comparisons with the symbols $>$, $=$, or $<$, and justify the conclusions, e.g., by using a visual model.</p>	
Assessment Limits	<p>Decimals reference the same whole value. Decimals limited to tenths and hundredths. Decimals should not be limited to values less than 1. Use mathematical symbols appropriately to compare values represented by models and not to compare models, e.g., $0.62 < 0.89$ instead of $[\text{model}] < [\text{model}]$.</p>	
Calculator	No	
Acceptable Response Mechanisms	<p>Equation Response Graphic Response – Drag and Drop, Drawing/Graphing, Hot Spot Multiple Choice Response Multi-Select Response Table Response Natural Language Response Matching Item Response</p>	
Context	Allowable	
Example		
Context	<p>Compare two decimals with or without a situational context such as measurement/length.</p> <ul style="list-style-type: none"> • At least one decimal to the hundredths place, with both less than one • Both decimals to the tenths place, with at least one greater than 1 	
Context easier	Both decimal numbers to the tenths place, with both values less than 1.	
Context more difficult	At least one decimal number to the hundredths place, with at least one greater than 1.	

Sample Item Stem	Response Mechanism	Notes, Comments
<p>Each model shown represents 1 whole.</p>  <p>Click to shade sections in the models to represent 0.2 and 0.3.</p> <p>Then, select the correct comparison symbol.</p>	<p>Graphic Response – Hot Spot</p>	
<p>A number line is shown.</p>  <p>A. Drag each number to its correct location on the number line.</p> <p>B. Select the correct comparison symbol.</p>	<p>Graphic Response- Hot Spot</p>	
<p>Mr. Shelby bought a new plant. The plant grew 2.6 centimeters in the first week and 3.4 centimeters the second week. Select all the true comparisons of the plant growth for the two weeks.</p> <ul style="list-style-type: none"> <input type="radio"/> 2.6 > 3.42 <input type="radio"/> 3.42 > 2.6 <input type="radio"/> 2.6 < 3.42 <input type="radio"/> 3.42 < 2.6 <input type="radio"/> 2.6 = 3.42 	<p>Multi-Select Response</p>	

<p>Zach and Karla each have seeds they will plant in a class garden. Zach’s flower seeds weigh 1.5 grams. Karla’s seeds weigh 1.46 grams.</p> <p>Select the correct symbol for each comparison.</p> <table border="1" data-bbox="191 489 469 613"> <tr> <td></td> <td><</td> <td>></td> <td>=</td> </tr> <tr> <td>1.5 \square 1.46</td> <td></td> <td></td> <td></td> </tr> <tr> <td>1.46 \square 1.5</td> <td></td> <td></td> <td></td> </tr> </table>		<	>	=	1.5 \square 1.46				1.46 \square 1.5				<p>Matching Item Response</p>					
	<	>	=															
1.5 \square 1.46																		
1.46 \square 1.5																		
<p>The locations of points <i>K</i> and <i>L</i> on the number line represent decimal numbers.</p>  <p>Explain why the value of point <i>L</i> is greater than the value of point <i>K</i>.</p>	<p>Natural Language Response</p>																	
<p>Complete the table to show a possible missing digit for each comparison.</p> <table border="1" data-bbox="191 1050 531 1188"> <thead> <tr> <th>Comparison</th> <th>Missing Digit</th> </tr> </thead> <tbody> <tr> <td>2.7 < 2.□</td> <td></td> </tr> <tr> <td>0.23 > 0.□</td> <td></td> </tr> </tbody> </table>	Comparison	Missing Digit	2.7 < 2.□		0.23 > 0.□		<p>Table Response</p>											
Comparison	Missing Digit																	
2.7 < 2.□																		
0.23 > 0.□																		
<p>Complete the table to show whether each number in the table is less than, equal to, or greater than 2.8.</p> <table border="1" data-bbox="191 1367 506 1518"> <thead> <tr> <th></th> <th>< 2.8</th> <th>= 2.8</th> <th>> 2.8</th> </tr> </thead> <tbody> <tr> <td>0.99</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2.80</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3.1</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		< 2.8	= 2.8	> 2.8	0.99				2.80				3.1				<p>Table Response</p>	
	< 2.8	= 2.8	> 2.8															
0.99																		
2.80																		
3.1																		
<p>Allison wrote down a decimal number that is greater than 0.58 but less than 0.62.</p> <p>What is one number Allison could have written down?</p>	<p>Equation Response</p>																	