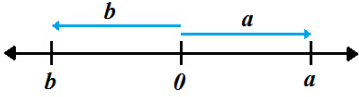
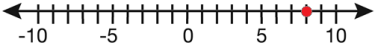
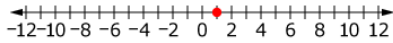

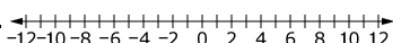
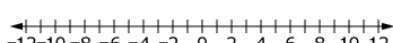
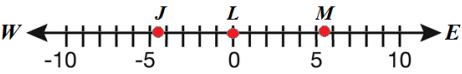
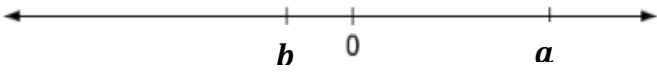


Content Standard	<p>MAFS.7.NS <i>The Number System</i></p> <p>MAFS.7.NS.1 <i>Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.</i></p> <p>MAFS.7.NS.1.1 Apply and extend previous understandings of addition and subtraction to add and subtract rational numbers; represent addition and subtraction on a horizontal or vertical number line diagram.</p> <p>MAFS.7.NS.1.1a Describe situations in which opposite quantities combine to make 0. For example, a hydrogen atom has 0 charge because its two constituents are oppositely charged.</p> <p>MAFS.7.NS.1.1b Understand $p + q$ as the number located a distance q from p, in the positive or negative direction depending on whether q is positive or negative. Show that a number and its opposite have a sum of 0 (are additive inverses). Interpret sums of rational numbers by describing real-world contexts.</p> <p>MAFS.7.NS.1.1c Understand subtraction of rational numbers as adding the additive inverse, $p - q = p + (-q)$. Show that the distance between two rational numbers on the number line is the absolute value of their difference, and apply this principle in real-world contexts.</p> <p>MAFS.7.NS.1.1d Apply properties of operations as strategies to add and subtract rational numbers.</p>	
Assessment Limits	<p>Numbers in items must be rational numbers: use integers, decimals, and fractions. Limit decimals to those ending in 0.25, 0.5, and 0.75. Limit fractions to halves and fourths.</p>	
Calculator	Neutral	
Item Type	Equation Editor GRID Multiple Choice Multiselect Open Response	
Context	Allowable	
Sample Item	Item Type	
<p>An expression is shown.</p> $15.5 + (-16.75)$ <p>What is the value of the expression?</p>	Equation Editor	
<p>An expression is shown.</p> $-5\frac{1}{2} + 7\frac{3}{4}$ <p>What is the value of the expression?</p>	Equation Editor	

Sample Item	Item Type
<p>A number line is shown.</p>  <p>Jack knows that $a + b = 0$.</p> <p>Which statement is true?</p> <p>A. $a = b$ B. $-b = a$ C. $a - b = 0$ D. $b - a = 0$</p>	Multiple Choice
<p>A number line is shown.</p>  <p>Use the Add Point tool to plot a point that is 14.5 units from 8 on the given number line.</p>	GRID
<p>An expression is shown.</p> <p>$1 + 2 + (-5) + 4$</p> <p>Kendrick is using number lines to find the value of the expression. His first two steps are shown.</p> <p>A. Use the Add Arrow tool to show the last two steps.</p> <p>B. Select the value of the expression.</p> <div data-bbox="191 1360 755 1822" style="border: 1px solid black; padding: 5px;"> <p>A. $1 + 2 + (-5) + 4$</p> <p>Start at 1. </p> <p>Then add 2. </p> <p>Then add (-5). </p> <p>Then add 4. </p> <hr/> <p>B. What is the value of the expression?</p> <p style="text-align: center;">-6 -5 0 2 4 12</p> </div>	GRID

Sample Item	Item Type
<p>Megan and Jake both live on the same street that the library is on.</p>  <p><i>Jake (J): 4.5 km from the library (L)</i> <i>Megan (M): 5.5 km from the library (L)</i></p> <p>How many kilometers (km) apart do Megan and Jake live?</p>	Equation Editor
<p>The sum of a and b is c. The number line shows a and b.</p>  <p>Which statements about c are true?</p> <ul style="list-style-type: none"> <input type="checkbox"/> $a < c$ <input type="checkbox"/> $a = c$ <input type="checkbox"/> $a > c$ <input type="checkbox"/> $c < 0$ <input type="checkbox"/> $c = 0$ <input type="checkbox"/> $c > 0$ 	Multiselect
GRID	
<p>An expression is shown, where $a < 0$ and $c > 0$.</p> $a + b = c$ <p>Drag the two points to the number line to show possible locations of a and b.</p>	