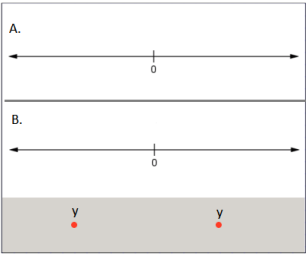


Content Standard	<p><b>MAFS.7.NS</b> <i>The Number System</i></p> <p><b>MAFS.7.NS.1</b> <i>Apply and extend previous understanding of operations with fractions.</i></p> <p><b>MAFS.7.NS.1.2</b> Apply and extend previous understandings of multiplication and division and of fractions to multiply and divide rational numbers.</p> <p><b>MAFS.7.NS.1.2a</b> Understand that multiplication is extended from fractions to rational numbers by requiring that operations continue to satisfy the properties of operations, particularly the distributive property, leading to products such as <math>(-1)(-1) = 1</math> and the rules for multiplying signed numbers. Interpret products of rational numbers by describing real-world contexts.</p> <p><b>MAFS.7.NS.1.2b</b> Understand that integers can be divided, provided that the divisor is not zero, and every quotient of integers (with non-zero divisor) is a rational number. If <math>p</math> and <math>q</math> are integers, then <math>-\frac{p}{q} = \frac{-p}{q} = \frac{p}{-q}</math>. Interpret quotients of rational numbers by describing real-world contexts.</p> <p><b>MAFS.7.NS.1.2c</b> Apply properties of operations as strategies to multiply and divide rational numbers.</p> <p><b>MAFS.7.NS.1.2d</b> Convert a rational number to a decimal using long division; know that the decimal form of a rational number terminates in 0s or eventually repeats.</p>	
Assessment Limits	<p>Numbers in items must be rational numbers.</p> <p>7.NS.1.2a, 2b, and 2c require the incorporation of a negative value.</p>	
Calculator	No	
Item Type	<p>Equation Editor</p> <p>GRID</p> <p>Matching Item</p> <p>Multiple Choice</p> <p>Multiselect</p> <p>Table Item</p>	
Context	Allowable	
Sample Item		Item Type
<p>Sandy uses <math>\frac{2}{7}</math> of a pound of raisins in each batch of raisin bread.</p> <p>Yesterday, Sandy used <math>\frac{5}{7}</math> of a pound of raisins. How many batches of raisin bread did Sandy make yesterday?</p>		Equation Editor
<p>Joe and Scott equally share a pizza.</p> <p>If Scott eats <math>\frac{1}{2}</math> of his portion of the pizza, what fraction of the whole pizza does he eat?</p>		Equation Editor
<p>In Homestead, <math>\frac{2}{5}</math> of the households own pets. Of the households with pets, <math>\frac{1}{3}</math> have cats.</p> <p>What fraction of the households in Homestead own cats?</p>		Equation Editor

Sample Item	Item Type
<p>Springfield has an elevation of <math>-150</math> feet. Greenville is 3 times as far below sea level as Springfield.</p> <p>What is Greenville's elevation, in feet?</p>	Equation Editor
<p>An equation is shown, where <math>x &gt; 0</math>, <math>z &lt; 0</math>, and <math> x  &gt;  z </math>.</p> $x \cdot y = z$ <p>Which statements are true?</p> <p><input type="checkbox"/> <math>y &lt; 0</math></p> <p><input type="checkbox"/> <math>y &gt; 0</math></p> <p><input type="checkbox"/> <math> y  &lt; 1</math></p> <p><input type="checkbox"/> <math> y  = 1</math></p> <p><input type="checkbox"/> <math> y  &gt; 1</math></p>	Multiselect
<p>An equation is shown, where <math>z &lt; 0</math>.</p> $x \cdot y = z$ <p>A. Assume <math>x &gt; 0</math>. Drag the point to the number line to identify a possible location for <math>y</math>.</p> <p>B. Assume <math>x &lt; 0</math>. Drag the point to the number line to identify a possible location for <math>y</math>.</p> 	GRID
<p>What is <math>\frac{2}{3}</math> written as a decimal?</p> <p><input type="radio"/> (A) 0.23</p> <p><input type="radio"/> (B) 0.6</p> <p><input type="radio"/> (C) <math>0.\overline{6}</math></p> <p><input type="radio"/> (D) 1.5</p>	Multiple Choice