

**Mathematics – Grade 6**

<b>Ratios and Proportional Relationships</b>	<b>The Number System</b>
<ul style="list-style-type: none"> <li>Understand ratios and rates, and solve problems involving proportional relationships (e.g., If it took 7 hours to mow 4 lawns, then at that rate, how many lawns could be mowed in 35 hours?).</li> </ul>	<ul style="list-style-type: none"> <li>Divide fractions and solve related word problems (e.g., How wide is a rectangular strip of land with length <math>\frac{3}{4}</math> mile and area <math>\frac{1}{2}</math> square mile?).</li> <li>Use positive and negative numbers together to describe quantities; understand the ordering and absolute values of positive and negative numbers.</li> </ul>
<b>Expressions and Equations</b>	<b>Geometry</b>
<ul style="list-style-type: none"> <li>Work with variables and expressions by generalizing the way numbers work (e.g., When adding numbers, the order doesn't matter, so <math>x + y = y + x</math>; likewise, properties of addition and multiplication can be used to rewrite <math>24x + 18y</math> as <math>6(4x + 3y)</math>, or <math>y + y + y</math> as <math>3y</math>).</li> <li>Write equations to solve word problems and describe relationships between quantities (e.g., The distance <math>D</math> traveled by a train in time <math>T</math> might be expressed by an equation <math>D = 85T</math>, where <math>D</math> is in miles and <math>T</math> is in hours.).</li> </ul>	<ul style="list-style-type: none"> <li>Reason about relationships between shapes to determine area, surface area, and volume.</li> </ul>
<b>Statistics and Probability</b>	
<ul style="list-style-type: none"> <li>Create graphical representations of data and reason about statistical distributions.</li> </ul>	