

Mathematics – Grade 7

<p>Ratios and Proportional Reasoning</p> <ul style="list-style-type: none"> Analyze proportional relationships (e.g., by graphing in the coordinate plane), and distinguish proportional relationships from other kinds of mathematical relationships (e.g., Buying 10 times as many items will cost you 10 times as much, but taking 10 times as many aspirin will not lower your fever 10 times as much). 	<p>The Number System</p> <ul style="list-style-type: none"> Solve percent problems (e.g., tax, tips, and markups and markdowns). Solve word problems that have a combination of whole numbers, fractions, and decimals (e.g., A woman making \$25 per hour receives a 10% raise; she will make an additional $\frac{1}{10}$ of his or her salary an hour, or \$2.50, for a new salary of \$27.50.)
<p>Expressions and Equations</p> <ul style="list-style-type: none"> Solve equations such as $\frac{1}{2}(x - 3) = \frac{3}{4}$ quickly and accurately, and write equations of this kind to solve word problems. 	<p>Geometry</p> <ul style="list-style-type: none"> Solve problems involving scale drawings.
<p>Statistics and Probability</p> <ul style="list-style-type: none"> Use statistics to draw inferences and make comparisons (e.g., deciding which candidate is likely to win an election based on a survey). 	