

Common Core Standards of Mathematical Practice

<p>1. Make sense of problems and persevere in solving them.</p> <p>Students should be able to find an accurate solution, explain, and rationalize the solution. Also check the solution using other approaches to understand the problem.</p>	<p>2. Reason abstractly and quantitatively.</p> <p>To reason abstractly and quantitatively, students must be able to connect prior knowledge, understand relationships, and represent a mathematical situation symbolically and solve problems.</p>
<p>3. Construct viable arguments and critique the reasoning of others.</p> <p>Students will be able to understand current definitions and arguments, make conjectures, use common examples, communicate to others, and distinguish when reasoning is flawed. They will also ask useful questions to clarify arguments.</p>	<p>4. Model with mathematics.</p> <p>Mathematically proficient students will apply math to real-world situations by identifying important quantities, then interpreting, analyzing, drawing conclusions, and revising their conclusions if necessary.</p>
<p>5. Use appropriate tools strategically.</p> <p>Students will use the appropriate equipment, including various technologies to solve a problem. Sound decisions are made while analyzing data. Results are visualized and predictions are made.</p>	<p>6. Attend to precision.</p> <p>Students will be accurate, efficient, and precise in their calculations, graphical representations, and communication when solving problems and facilitating discussion of the solutions with others.</p>
<p>7. Look for and make use of structure.</p> <p>All students will be able to identify, create, and evaluate patterns related to algebraic expressions using the distributive property and construction of simple geometric figures.</p>	<p>8. Looking for and express regularity in repeated reasoning.</p> <p>Mathematically proficient students will notice if calculations are repeated and look for both general methods and shortcuts. They will also continually evaluate the reasonableness of their results.</p>