

## Standards for Mathematical Practice for Parents

Practice Standard	How a child can use the practice standard	Questions to ask
<p><b>1. Make sense of problems and persevere in solving them.</b></p>	<ul style="list-style-type: none"> <li>• I can make my own plan for solving the problem and stick with it even if it is difficult.</li> <li>• I can check the reasonableness of my answer.</li> <li>• I can solve it a second way to make sure I am right!</li> </ul>	<ul style="list-style-type: none"> <li>○ What plan can you make to solve this problem?</li> <li>○ Can you draw a picture or act out the problem?</li> <li>○ What information is in the problem?</li> <li>○ What are you trying to figure out?</li> </ul>
<p><b>2. Reason abstractly and quantitatively.</b></p>	<ul style="list-style-type: none"> <li>• I can use numbers and words to help make sense of problems.</li> <li>• I can think about what each number represents.</li> <li>• I can think about the relationships between the numbers in the problem.</li> <li>• I can think about what property might be used to solve the problems.</li> <li>• I can think about whether other operations might be used.</li> </ul>	<ul style="list-style-type: none"> <li>○ Can you explain what the numbers in the problem mean?</li> <li>○ How did you decide to use this operation?</li> </ul>
<p><b>3. Construct viable arguments and critique the reasoning of others.</b></p>	<ul style="list-style-type: none"> <li>• I can explain my thinking using objects, drawings or actions.</li> <li>• I can consider the thinking of other students.</li> <li>• I can ask questions to clarify my understanding.</li> <li>• I can make connections to other strategies.</li> </ul>	<ul style="list-style-type: none"> <li>○ How could you prove that...?</li> <li>○ How can we be sure?</li> <li>○ Is this like another problem you have solved before?</li> </ul>
<p><b>4. Model with mathematics.</b></p>	<ul style="list-style-type: none"> <li>• I can recognize math in everyday life and use it to solve problems.</li> <li>• I can use pictures, words, objects or symbols to solve the problem.</li> </ul>	<ul style="list-style-type: none"> <li>○ What model could you construct that might help you solve this problem?</li> <li>○ Can you visualize the action in this problem?</li> </ul>

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	<ul style="list-style-type: none"> <li>• I can use number lines, arrays or other models to help myself as I solve the problem or to represent my solution.</li> </ul>	
<b>5. Use appropriate tools strategically.</b>	<ul style="list-style-type: none"> <li>• I can use math tools such as number lines, calculators, objects, tables, etc. to solve a problem.</li> <li>• I can use estimates when problem solving.</li> </ul>	<ul style="list-style-type: none"> <li>○ What tools could we use to solve this problem?</li> <li>○ What information do you have that might help?</li> </ul>
<b>6. Attend to precision.</b>	<ul style="list-style-type: none"> <li>• I can be careful when I use math and be clear when I share my ideas.</li> <li>• I always think about whether my answer is reasonable.</li> <li>• I try to be efficient and concise when I solve a problem. (This looks different at various grade levels.)</li> <li>• I can test my solution by solving a different way or by modeling the solution and checking for reasonableness.</li> </ul>	<ul style="list-style-type: none"> <li>○ How do you know your solution is reasonable?</li> <li>○ How could you test your solution to see if it accurately answers the problem?</li> </ul>
<b>7. Look for and make use of structure.</b>	<ul style="list-style-type: none"> <li>• I can see and understand how numbers and shapes are put together as parts and wholes.</li> <li>• I look for patterns that can help me solve a problem.</li> <li>• I think about other problems I have solved before and whether they can help me with this problem.</li> <li>• I try to connect mathematical ideas.</li> </ul>	<ul style="list-style-type: none"> <li>○ What do you notice when...?</li> <li>○ What patterns do you find in...?</li> <li>○ What are some other problems that are similar to this one?</li> </ul>
<b>8. Look for and express regularity in repeated reasoning.</b>	<ul style="list-style-type: none"> <li>• I can notice when calculations are repeated and use these ideas to create a strategy.</li> <li>• I think about whether patters are always true in all situations.</li> </ul>	<ul style="list-style-type: none"> <li>○ Is this always true?</li> <li>○ What do you notice about...?</li> <li>○ What is happening in this situation?</li> </ul>

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|  | <ul style="list-style-type: none"><li>• I can create rules for patterns.</li></ul> |  |
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