

A Parent's Guide to the Standards for Mathematical Practice

As your child works through homework exercises, you can help him/her develop and apply the eight Mathematical Practices by asking some of these questions:

- 1. Make sense of problems and persevere in solving them.**
 - What problem are you asked to solve?
 - Have you solved similar problems?
 - What is your plan for solving the problem?
 - Did you use a different method to check your answer?
- 2. Reason abstractly and quantitatively.**
 - Can you think of a number sentence (equation) to match the story (situation)?
 - What do the numbers in the number sentence mean?
 - How are the facts in the problem related to one another?
- 3. Construct viable arguments and critique the reasoning of others.**
 - What does your answer mean?
 - How can you be sure that your answer is correct?
- 4. Model with mathematics.**
 - What number sentence (equation) describes this problem?
 - What numbers will you use to solve the problem?
 - How are the numbers in the problem connected?
 - Is your answer reasonable?
 - What does your solution represent?
- 5. Use appropriate tools strategically.**
 - What tools can help you solve this problem?
 - Which tool is the most useful for this problem? Why is that your choice?
 - Did you begin by estimating the solution?
- 6. Attend to precision.**
 - What do the symbols that you used mean?

- What units of measure are you using?
- Explain what [term from the lesson] means.

7. Look for and make use of structure.

- What do you notice about the solutions you've just completed?

8. Look for and express regularity in repeated reasoning.

- Are there shortcuts for solving similar problems?