The K-12 Standards for Mathematical Practice describe varieties of expertise that mathematics educators at all levels should seek to develop in their students. This page gives examples of what the practice standards look like at the specified grade level.

| Standards | $\quad$ Explanations and Examples |
| :--- | :--- |\(\left|\begin{array}{l}Students are expected to: \\

1. Make sense of problems \\
and persevere in solving \\
them.\end{array} \begin{array}{l}In grade 7, students solve problems involving ratios and rates and discuss how they solved them. Students \\
solve real world problems through the application of algebraic and geometric concepts. Students seek the \\
meaning of a problem and look for efficient ways to represent and solve it. They may check their thinking by \\
asking themselves, "What is the most efficient way to solve the problem?", "Does this make sense?", and "Can \\

I solve the problem in a different way?"\end{array}\right|\)| Students are expected to:. |
| :--- |
| 2. Reason abstractly and |
| quantitatively. | | In grade 7, students represent a wide variety of real world contexts through the use of real numbers and |
| :--- |
| variables in mathematical expressions, equations, and inequalities. Students contextualize to understand the |
| meaning of the number or variable as related to the problem and decontextualize to manipulate symbolic |
| representations by applying properties of operations. |


| Standards | $\quad$ Explanations and Examples |
| :--- | :--- |\(\left|\begin{array}{l}Students are expected to: \\

6. Attend to precision.\end{array} \quad $$
\begin{array}{l}\text { In grade 7, students continue to refine their mathematical communication skills by using clear and precise } \\
\text { language in their discussions with others and in their own reasoning. Students define variables, specify units of } \\
\text { measure, and label axes accurately. Students use appropriate terminology when referring to rates, ratios, } \\
\text { probability models, geometric figures, data displays, and components of expressions, equations or inequalities. }\end{array}
$$\right|\)

