

Unit 3: Rates and Percentages

Family Resources for Math 6 Unit 3: Rates and Percentages

Habits of Mind and The Standards for Mathematical Practice

Habits of mind refer to the ways students think and behave when they are faced with a problem.

In mathematics, middle school students are always learning about and using these mathematics habits of mind:



I work through problems by thinking carefully and not giving up.



I explain my thinking clearly, listen to understand others' ideas, and offer feedback



I choose and use tools- like diagrams, formulas, manipulatives, or calculators- strategically.



I look for patterns, rules, and structure to make sense of math.



I use math reasoning and what I know about numbers to solve problems accurately.



I connect new problems to things I've learned before to figure them out.



I double-check my work and make sure my answers are reasonable.

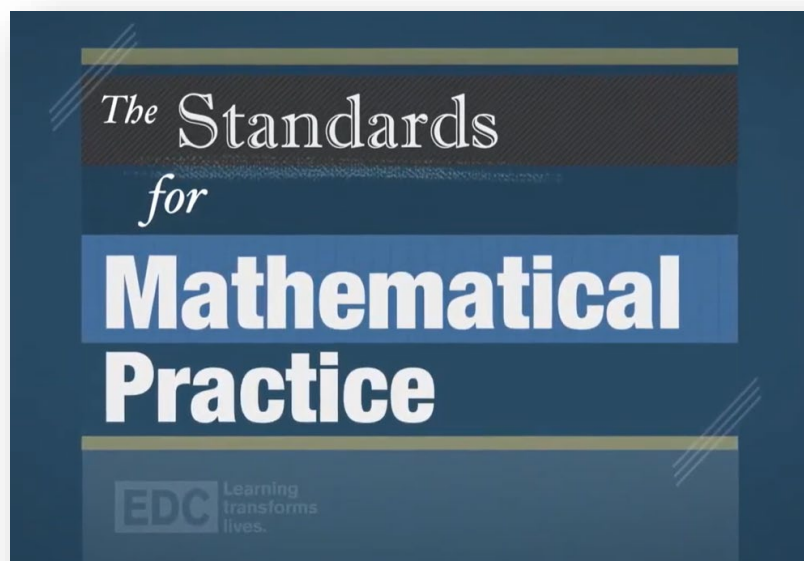


I look for repeated steps in calculations to find methods and improve efficiency.

These habits are known as the **Standards for Mathematical Practice**, and they describe the key skills and behaviors that help students become strong mathematical thinkers.

These practices are especially important in middle school because students are moving from basic skills to more complex and abstract ideas. When teachers consistently support these practices, students become more confident and independent learners. They begin to see themselves as capable problem solvers who can make sense of new and challenging situations. Students begin to understand that struggle is a normal part of learning and that effort leads to growth. Over time, this approach builds not only stronger math skills, but also critical thinking and communication skills that are valuable in all areas of life.

Focusing on habits of mind and the Standards for Mathematical Practice helps create a classroom where thinking is valued, mistakes are part of learning, and every student has the opportunity to grow.



For additional information and resources to support at home, please visit the [Office of Mathematics website](#).

Big Ideas in Unit 3

Within this unit, students will learn these big ideas:

- Units of Measurement and Unit Conversion
- Rates
- Percentages

For more details about this unit, see [Unit 3 Family Resources](#).

Lesson Specific Resources

Use the links below to learn about the learning from each lesson.

Lesson Link
3.1 Anchoring Units of Measurement
3.3 Converting Units
3.4 Comparing Speeds and Prices
3.5 Interpreting Rates
3.6 Equivalent Ratios Have the Same Unit Rates
3.7 More Rate Comparisons
3.8 Solving Rate Problems
3.10 What Are Percentages?
3.11 Representing Percentages with Double Number Line Diagrams
3.12 Representing Percentages in Different Ways
3.13 Benchmark Percentages
3.14 Solving Percentage Problems
3.15 Finding This Percent of That
3.17 Painting a Room