

SEVENTH GRADE MATHEMATICS

June 2021

Mathematical Practice Standards: Make sense of, communicate, connect and justify mathematical ideas to support understanding and learning across all mathematical concepts

- Make sense of problems and persevere in solving them
- Reason abstractly and quantitatively
- Construct viable arguments and critique the reasoning of others
- Model with mathematics
- Use appropriate tools strategically
- Attend to precision
- Look for and make use of structure
- Look for and express regularity in repeated reasoning

Operations with Rational Numbers

- Apply previous understanding of operations with rational numbers to include integers and negative rational numbers (7.NS.1-3)

Proportional Reasoning

- Compute unit rates (7.RP.1)
- Recognize and represent proportional relationships between quantities using multiple representations (7.RP.2)
- Use proportional relationships to solve multi-step and percent problems (7.RP.3)
- Solve problems using scale drawings of geometric figures (7.G.1)

Simplify Expressions and Solve Equations

- Apply properties of operations to factor, expand (7.EE.1) and convert between forms of an expression (7.EE.2)
- Assess reasonableness of solutions (7.EE.3)
- Use variables to represent quantities to construct and solve real-world equations and inequalities (7.EE.4)

Represent and Analyze Relationships

- Solve problems using numerical and algebraic equations (7.EE.3-4)
- Draw inferences about two populations (7.SP.2-4)
- Investigate probability models (7.SP.5-8)