Pennsylvania Mathematics

Grade 6

Adopted 2014

Numbers and Operations CC.2.1

(D) Ratios & Proportional Relationships

1. Understand ratio concepts and use ratio reasoning to solve problems. CC.2.1.6.D.1

(E) The Number System

1. Apply and extend previous understandings of multiplication and division to divide fractions by fractions. CC.2.1.6.E.1
2. Identify and choose appropriate processes to compute fluently with multi-digit numbers. CC.2.1.6.E.2
3. Develop and/or apply number theory concepts to find common factors and multiples. CC.2.1.6.E.3
4. Apply and extend previous understandings of numbers to the system of rational numbers. CC.2.1.6.E.4

Algebraic Concepts CC.2.2

(B) Expressions and Equations

1. Apply and extend previous understandings of arithmetic to algebraic expressions. CC.2.2.6.B.1
2. Understand the process of solving a one-variable equation or inequality and apply it to real-world and mathematical problems. CC.2.2.6.B.2
3. Represent and analyze quantitative relationships between dependent and independent variables. CC.2.2.6.B.3

Geometry CC.2.3

(A) Geometry

1. Apply appropriate tools to solve real-world and mathematical problems involving area, surface area, and volume. CC.2.3.6.A.1

Measurement, Data, and Probability CC.2.4

(B) Statistics and Probability

1. Demonstrate an understanding of statistical variability by displaying, analyzing, and summarizing distributions. CC.2.4.6.B.1

The Standards of Mathematical Practices

1. **Make sense of problems and persevere in solving them.** MP.1
2. **Construct viable arguments and critique the reasoning of others.** MP.2

3. **Use appropriate tools strategically.** MP.3

4. **Look for and make use of structure.** MP.4

5. **Reason abstractly and quantitatively.** MP.5

6. **Model with mathematics.** MP.6

7. **Attend to precision.** MP.7

8. **Look for and express regularity in repeated reasoning.** MP.8