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 Ma**

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1. **Make sense of problems and persevere in solving them.** MP.1

**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