Pennsylvania Mathematics

Grade 7

Adopted 2014

Numbers and Operations CC.2.1

(D) Ratios & Proportional Relationships

1. Analyze proportional relationships and use them to model and solve real-world and mathematical problems. CC.2.1.7.D.1

(E) The Number System

1. Apply and extend previous understandings of operations with fractions to operations with rational numbers. CC.2.1.7.E.1

Algebraic Concepts CC.2.2

(B) Expressions and Equations

1. Apply properties of operations to generate equivalent expressions. CC.2.2.7.B.1
3. Model and solve real-world and mathematical problems by using and connecting numerical, algebraic, and/or graphical representations. CC.2.2.7.B.3

Geometry CC.2.3

(A) Geometry

1. Solve real-world and mathematical problems involving angle measure, area, surface area, circumference, and volume. CC.2.3.7.A.1
2. Visualize and represent geometric figures and describe the relationships between them. CC.2.3.7.A.2

Measurement, Data, and Probability CC.2.4

(B) Statistics and Probability

1. Draw inferences about populations based on random sampling concepts. CC.2.4.7.B.1
2. Draw informal comparative inferences about two populations. CC.2.4.7.B.2
3. Investigate chance processes and develop, use, and evaluate probability models. CC.2.4.7.B.3

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

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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