Pennsylvania Mathematics

Grade 5

Adopted 2014

Numbers and Operations CC.2.1

(B) Numbers & Operations in Base Ten

1. Apply place-value concepts to show an understanding of operations and rounding as they pertain to whole numbers and decimals. CC.2.1.5.B.1
2. Extend an understanding of operations with whole numbers to perform operations including decimals. CC.2.1.5.B.2

(C) Numbers & Operations - Fractions

1. Use the understanding of equivalency to add and subtract fractions. CC.2.1.5.C.1
2. Apply and extend previous understandings of multiplication and division to multiply and divide fractions. CC.2.1.5.C.2

Algebraic Concepts CC.2.2

(A) Operations and Algebraic Thinking

1. Interpret and evaluate numerical expressions using order of operations. CC.2.2.5.A.1
4. Analyze patterns and relationships using two rules. CC.2.2.5.A.4

Geometry CC.2.3

(A) Geometry

1. Graph points in the first quadrant on the coordinate plane and interpret these points when solving real world and mathematical problems. CC.2.3.5.A.1
2. Classify two-dimensional figures into categories based on an understanding of their properties. CC.2.3.5.A.2

Measurement, Data, and Probability CC.2.4

(A) Measurement and Data

1. Solve problems using conversions within a given measurement system. CC.2.4.5.A.1
2. Represent and interpret data using appropriate scale. CC.2.4.5.A.2
4. Solve problems involving computation of fractions using information provided in a line plot. CC.2.4.5.A.4
5. Apply concepts of volume to solve problems and relate volume to multiplication and to addition. CC.2.4.5.A.5

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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