Pennsylvania Mathematics

Grade 3

Adopted 2014

Numbers and Operations CC.2.1

(B) Numbers & Operations in Base Ten

1. Apply place-value understanding and properties of operations to perform multi-digit arithmetic. CC.2.1.3.B.1

(C) Numbers & Operations - Fractions

1. Explore and develop an understanding of fractions as numbers. CC.2.1.3.C.1

Algebraic Concepts CC.2.2

(A) Operations and Algebraic Thinking

1. Represent and solve problems involving multiplication and division. CC.2.2.3.A.1
2. Understand properties of multiplication and the relationship between multiplication and division. CC.2.2.3.A.2
3. Demonstrate multiplication and division fluency. CC.2.2.3.A.3
4. Solve problems involving the four operations, and identify and explain patterns in arithmetic. CC.2.2.3.A.4

Geometry CC.2.3

(A) Geometry

1. Identify, compare, and classify shapes and their attributes. CC.2.3.3.A.1
2. Use the understanding of fractions to partition shapes into parts with equal areas and express the area of each part as a unit fraction of the whole. CC.2.3.3.A.2

Measurement, Data, and Probability CC.2.4

(A) Measurement and Data

1. Solve problems involving measurement and estimation of temperature, liquid volume, mass, and length. CC.2.4.3.A.1
2. Tell and write time to the nearest minute and solve problems by calculating time intervals. CC.2.4.3.A.2
3. Solve problems and make change involving money using a combination of coins and bills. CC.2.4.3.A.3
4. Represent and interpret data using tally charts, tables, pictographs, line plots, and bar graphs. CC.2.4.3.A.4
5. Determine the area of a rectangle and apply the concept to multiplication and to addition. CC.2.4.3.A.5

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6. Solve problems involving perimeters of polygons and distinguish between linear and area measures. CC.2.4.3.A.6

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