



Key Topics by Grade with Pennsylvania Academic Standards



3rd Grade

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| 1. Place Value to 10,000 | 2.1.3.A
2.1.3.C
2.1.3.I |
| 2. Multi-Digit Addition | 2.2.3.B |
| 3. Multi-Digit Subtraction | 2.2.3.B |
| 4. Multiplication by a Single Digit | 2.2.3.C |
| 5. Division by a Single Digit | 2.2.3.D |
| 6. Geometry—Identifying Shapes | 2.9.3.A |
| 7. Basic Fractions | 2.1.3.D
2.9.5.B |

4th Grade

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| 1. Place Value to 1,000,000 | 2.1.3.I
2.1.5.A |
| 2. Multi-Digit Multiplication | 2.2.5.A |
| 3. Long Division w/Single Digit Divisor | 2.2.5.A |
| 4. Geometry—Area and Perimeter | 2.3.5.A
2.3.5.B |
| 5. Algebra—Find the Missing Number or Sign | 2.1.3.K
2.8.5.G |
| 6. Add/Subtract Fractions w/Like Denominators | 2.2.5.C |
| 7. Basic Decimals—Add/Subtract Decimals | 2.1.5.A
2.1.5.D |

5th Grade

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| 1. Graphing Coordinates | 2.8.5.H |
| 2. Long Division w/Multi-Digit Divisors | 2.2.5.A |
| 3. Multiply/Divide Decimals | 2.2.5.B |
| 4. Geometry—Area of Parallelograms and Triangles | 2.3.8.A |
| 5. Add/Subtract Integers | 2.1.5.F
2.1.8.F
2.2.8.B |
| 6. Add/Subtract Fractions w/Unlike Denominators | 2.2.5.C |
| 7. Decimals, Fractions, and Percents | 2.1.8.A |

6th Grade

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| 1. Factoring Numbers, GCF, and LCM | 2.1.5.G |
| 2. Geometry—Circumference/Area of a Circle | 2.9.5.C
2.3.8.A |
| 3. Add/Subtract Mixed Numbers | 2.2.8.B |
| 4. Ratios and Proportions | 2.1.8.D
2.2.8.D |
| 5. Multiply/Divide Integers | 2.2.8.B |
| 6. Algebra—Solve One-Step Equations | 2.1.8.G
2.8.8.E |
| 7. Compare/Order Fractions, Decimals, and Integers | 2.1.8.A |

7th Grade

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| 1. Order of Operations | 2.1.8.B
2.2.8.A |
| 2. Multiply/Divide Fractions | 2.2.8.B |
| 3. Powers, Exponents, and Roots | 2.1.8.B |
| 4. Algebra—Solve Two-Step Equations | 2.1.8.G
2.8.8.E |
| 5. Graphing Using the Slope Formula | 2.11.8.B |
| 6. Simplifying Fractions w/Variables | 2.1.8.E |
| 7. Pythagorean Theorem and Right Triangles | 2.10.8.A |

8th Grade

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| 1. Algebra—Solve Multi-Step Equations | 2.8.8.E |
| 2. Add/Subtract Polynomials | 2.1.8.E |
| 3. Multiply/Divide Polynomials | 2.1.8.E |
| 4. FOIL | 2.1.8.E |
| 5. Factoring Polynomials | 2.1.8.E |
| 6. Graph Linear Equations | 2.8.8.H |
| 7. Quadratic Formula | 2.8.11.N |