

**THE FOLLOWING STATE CURRICULUM STANDARDS ARE ADDRESSED BY
THE QUARTER MILE MATH SOFTWARE
FOR THE STATE OF ILLINOIS**

Subject: MATH

Standard: 6.0 Number Sense

Strand: II.6.a.0 Demonstrate Knowledge And Use Of Numbers And Their Representations In A Broad Range Of Theoretical And Practical Settings.

Substrand Titles that Address the Substrand

(Gr. K-3) Identify whole numbers and compare them using the symbols $<$, $>$, or $=$ and the words 'less than', 'greater than', or 'equal to', applying counting, grouping and place value concepts

Quarter Mile Math Level 1

Subject: MATH

Standard: 6.0 Number Sense

Strand: II.6.b.0 Investigate, Represent And Solve Problems Using Number Facts, Operations (addition, Subtraction, Multiplication, Division) And Their Properties, Algorithms And Relationships.

Substrand Titles that Address the Substrand

(Gr. K-3) Solve one- and two-step problems with whole numbers using addition, subtraction, multiplication and division.

Quarter Mile Math Level 1

Subject: MATH

Standard: 6.0 Number Sense

Strand: II.6.c.0 Compute And Estimate Using Mental Mathematics, Paper-and-pencil Methods, Calculators And Computers.

Substrand Titles that Address the Substrand

(Gr. K-3) Select and perform computational procedures to solve problems with whole numbers.

Quarter Mile Math Level 1

(Gr. K-3) Show evidence that whole number computational results are correct and/or that estimates are reasonable.

Quarter Mile Math Level 1

Subject: MATH

Standard: 6.0 Number Sense

Strand: II.6.d.0 Solve Problems Using Comparison Of Quantities, Ratios, Proportions And Percents.

Substrand Titles that Address the Substrand

(Gr. K-3) Compare the numbers of objects in groups.

Quarter Mile Math Level 1

Subject: MATH

Standard: 7.0 Measurement

Strand: II.7.a.0 Measure And Compare Quantities Using Appropriate Units, Instruments And Methods.

Quarter Mile Math Level 3

Subject: MATH

Standard: 6.0 Number Sense

Strand: II.6.b.0 Investigate, Represent And Solve Problems Using Number Facts, Operations (addition, Subtraction, Multiplication, Division) And Their Properties, Algorithms And Relationships.

Substrand **Titles that Address the Substrand**

(Gr. 4-6) Solve one- and two-step problems involving whole numbers, fractions and decimals using addition, subtraction, multiplication and division.

Quarter Mile Math Level 2

Quarter Mile Math Level 3

Subject: MATH

Standard: 6.0 Number Sense

Strand: II.6.c.0 Compute And Estimate Using Mental Mathematics, Paper-and-pencil Methods, Calculators And Computers.

Substrand **Titles that Address the Substrand**

(Gr. 4-6) Select and perform computational procedures to solve problems with whole numbers, fractions and decimals.

Quarter Mile Math Level 2

(Gr. 4-6) Show evidence that computational results using whole numbers, fractions and decimals are correct and/or that estimates are reasonable.

Quarter Mile Math Level 2

Quarter Mile Math Level 3

Subject: MATH

Standard: 7.0 Measurement

Strand: II.7.a.0 Measure And Compare Quantities Using Appropriate Units, Instruments And Methods.

Substrand **Titles that Address the Substrand**

(Gr. 4-6) Solve addition, subtraction, multiplication and division problems using currency.

Quarter Mile Math Level 2

Subject: MATH

Standard: 8.0 Patterns And Functions

Strand: II.8.c.0 Solve Problems Using Systems Of Numbers And Their Properties.

Substrand **Titles that Address the Substrand**

(Gr. 4-6) Explain operations and number properties including commutative, associative, distributive, transitive, zero, equality and order of operations.

Quarter Mile Math Level 2

Quarter Mile Math Level 3

Subject: MATH

Standard: 8.0 Patterns And Functions

Strand: II.8.d.0 Use Algebraic Concepts And Procedures To Represent And Solve Problems.

Substrand **Titles that Address the Substrand**

(Gr. 4-6) Solve linear equations involving whole numbers.

Quarter Mile Math Level 2

Quarter Mile Math Level 3

Grades 7 - 8

Subject: MATH

Standard: 10.0 Probability

Strand: II.10.a.0 Organize, Describe And Make Predictions From Existing Data.

Substrand

Titles that Address the Substrand

(Gr. 7-8) Compare the mean, median, mode and range, with and without the use of technology.

Quarter Mile Math Level 2

Subject: MATH

Standard: 6.0 Number Sense

Strand: II.6.a.0 Demonstrate Knowledge And Use Of Numbers And Their Representations In A Broad Range Of Theoretical And Practical Settings.

Substrand

Titles that Address the Substrand

(Gr. 7-8) Represent fractions, decimals, percentages, exponents and scientific notation in equivalent forms.

Quarter Mile Math Level 2

Subject: MATH

Standard: 6.0 Number Sense

Strand: II.6.b.0 Investigate, Represent And Solve Problems Using Number Facts, Operations (addition, Subtraction, Multiplication, Division) And Their Properties, Algorithms And Relationships.

Substrand

Titles that Address the Substrand

(Gr. 7-8) Solve practical computation problems involving whole numbers, integers and rational numbers.

Quarter Mile Math Level 3

(Gr. 7-8) Apply primes, factors, divisors, multiples, common factors and common multiples in solving problems.

Quarter Mile Math Level 2

Quarter Mile Math Level 3

(Gr. 7-8) Identify and apply properties of real numbers including pi, squares, and square roots.

Quarter Mile Math Level 2

Subject: MATH

Standard: 6.0 Number Sense

Strand: II.6.c.0 Compute And Estimate Using Mental Mathematics, Paper-and-pencil Methods, Calculators And Computers.

Substrand

Titles that Address the Substrand

(Gr. 7-8) Select computational procedures and solve problems with whole numbers, fractions, decimals, percents and proportions.

Quarter Mile Math Level 2

Subject: MATH

Standard: 6.0 Number Sense

Strand: II.6.d.0 Solve Problems Using Comparison Of Quantities, Ratios, Proportions And Percents.

