



Scholastic MATH® Meets Common Core State Standards

Scholastic MATH features motivating, skill-building activities that show students timely real-world applications of middle school math curricula and the Common Core State Content Standards for Mathematics. Subscriptions include a Teacher’s Guide, which features a chart that describes how each article correlates with the standards; teaching tips; extension activities; and an answer key for all print and online activities. Digital editions of each issue can be used with iPads®, interactive whiteboards, projectors, and classroom computers.

The following chart illustrates how *Scholastic MATH* meets the Common Core State Content Standards for Mathematics, grades 6-8:

- Ratios and Proportional Relationships (standards 6.RP and 7.RP)
- The Number System (standards 6.NS, 7.NS, and 8.NS)
- Expressions and Equations (standards 6.EE, 7.EE, and 8.EE)
- Geometry (standards 6.G, 7.G, and 8.G)
- Statistics and Probability (standards 6.SP, 7.SP, and 8.SP)
- Functions (standard 8.F)

Content Standards for Math	Scholastic MATH
<p style="color: #e91e63; font-size: 1.2em; font-weight: bold;">Ratios and Proportional Relationships</p> <p>6.RP Understand ratio concepts and use ratio reasoning to solve problems.</p>	<ul style="list-style-type: none"> • Students become familiar with the concept of ratio and learn to see ratio relationships through solving many problems involving ratio and rate reasoning. • Students use ratio language and learn to convert between ratios, fractions, and percents. • Students solve real-world problems using proportional reasoning, including those involving unit pricing, constant and average speed, percent, and converting units of measurement.
<p>7.RP Analyze proportional relationships and use them to solve real-world and mathematical problems.</p>	<ul style="list-style-type: none"> • Articles promote student understanding of equivalent ratios and give students practice testing for equivalence. • Students learn to recognize and have opportunities to practice representing proportional relationships in solving many problems involving rates. • Many problems in Numbers in the News and feature articles allow students to practice solving multistep ratio and percent problems.

The Number System

6.NS

Apply and extend previous understandings of multiplication and division to divide fractions by fractions.

- Articles targeting fraction multiplication and division give students practice solving these types of problems.

6.NS

Compute fluently with multidigit numbers and find common factors and multiples.

- Many problems throughout *Scholastic MATH* give students opportunities to practice using the standard algorithm for addition, subtraction, multiplication, and division of multidigit numbers, including integers and decimals.
- Feature articles focus on showing students how to find common factors and multiples, including greatest common factors and least common multiples.

6.NS

Apply and extend previous understandings of numbers to the system of rational numbers.

- Articles provide real-world contexts for understanding and ordering positive and negative numbers.
- Students gain practice plotting positive and negative numbers on the number line and plotting points in all four quadrants of the coordinate plane.

7.NS

Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.

- Students practice adding, subtracting, multiplying, and dividing positive and negative integers.
- Articles give real-world contexts for solving problems involving all four operations.

8.NS

Know that there are numbers that are not rational, and approximate them by rational numbers.

- Students encounter irrational numbers such as pi and $\sqrt{2}$.

Expressions and Equations

6.EE

Apply and extend previous understandings of arithmetic to algebraic expressions.

- Students evaluate expressions involving whole-number exponents and meaningful real-world and mathematical contexts.
- Students have many opportunities to write and evaluate expressions in which letters stand for numbers in real-world contexts, and to evaluate such expressions at specific values of their variables.
- In each issue, students evaluate arithmetic expressions with all four operations, using the order of operations, in the By the Numbers feature.
- Articles targeting properties such as inverse operations and problems involving solving algebraic equations promote student understanding of writing equivalent expressions.

Expressions and Equations

6.EE

Reason about and solve one-variable equations and inequalities.

- Articles in the magazine provide meaningful real-world problem contexts for which students can write and solve equations with one variable.

6.EE

Represent and analyze quantitative relationships between dependent and independent variables.

- Students work with problems involving a dependent and an independent variable in the context of proportional and other linear relationships in both the magazine and online extension activities.
- Students develop an understanding of relationships between dependent and independent variables by looking at function tables and trends in line graphs.

7.EE

Use properties of operations to generate equivalent expressions.

- Many problems throughout the magazine provide students with opportunities to practice rewriting linear expressions using the properties of operations.

7.EE

Solve real-life and mathematical problems using numerical and algebraic expressions and equations.

- Regular features in Numbers in the News, as well as longer feature articles, provide opportunities for students to solve multistep problems with real-world contexts.
- Students perform numerical calculations in a variety of forms, convert between numerical forms regularly, and are encouraged to use different strategies in Teacher's Guide suggestions.
- Word problems with meaningful real-world contexts give students practice writing and solving linear equations with one variable.

8.EE

Work with radicals and integer exponents.

- Articles support students in learning and using the properties of integer exponents and evaluating expressions with integer exponents.
- Problems in online extensions show students how to solve problems with x^2 by using square root.

8.EE

Understand the connections between proportional relationships, lines, and linear equations.

- Extension activities involving graphing proportional relationships and working with slope support student understanding of these concepts.

8.EE

Analyze and solve linear equations and pairs of simultaneous linear equations.

- Problems throughout the magazine provide students with practice solving linear equations.

Geometry

6.G

Solve real-world and mathematical problems involving area, surface area, and volume.

- Students find perimeter and area of known shapes like rectangles, triangles, and parallelograms, and area of compound shapes by decomposing them.
- Students find volume and surface area of three-dimensional objects.
- Students use the coordinate plane to draw polygons by plotting vertices at given points.

7.G

Draw, construct, and describe geometrical figures, and describe the relationships between them.

- Students work with and create scale models and geometric figures in hands-on extension activities.

7.G

Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.

- Students learn and use the formulas for area and perimeter of polygons in meaningful problem contexts.
- Students learn and use the formulas for surface area of three-dimensional objects in meaningful problem contexts.
- Students learn and use the formulas for volume of three-dimensional objects in meaningful problem contexts.
- Articles support students in finding area of compound shapes by decomposing them.

8.G

Understand congruence and similarity using physical models, transparencies, or geometry software.

- Problems in practice tests support student learning about angle rotations.
- Students develop understanding of the interior angles of triangles through practice test problems that involve examining and comparing them.

8.G

Understand and apply the Pythagorean Theorem.

- Students use the Pythagorean Theorem to find unknown sides of right triangles.

8.G

Solve real-world and mathematical problems involving volume of cylinders, cones, and spheres.

- In articles and online extensions, students learn and use the formulas for finding the volume of three-dimensional objects, including cylinders, cones, and spheres.

Content Standards for Math	Scholastic MATH
<h3 data-bbox="224 226 724 277">Statistics and Probability</h3> <p data-bbox="126 319 191 361">6.SP</p> <p data-bbox="224 289 652 348">Develop understanding of statistical variability.</p>	<ul data-bbox="824 289 1412 348" style="list-style-type: none"> • Meaningful real-world contexts help students to calculate and make sense of measures of center.
<p data-bbox="126 457 191 499">6.SP</p> <p data-bbox="224 428 678 457">Summarize and describe distributions.</p>	<ul data-bbox="824 428 1477 617" style="list-style-type: none"> • The graphs and charts in the Statistics column give students practice finding and interpreting measures of central tendency, including mean, median, and mode. • Students practice making and interpreting displays of numerical data, including box-and-whisker plots.
<p data-bbox="126 688 191 730">7.SP</p> <p data-bbox="224 659 708 718">Use random sampling to draw inferences about a population.</p>	<ul data-bbox="824 659 1468 743" style="list-style-type: none"> • In working with statistical data sets from meaningful real-world contexts, students develop understanding of sampling to generalize about a population.
<p data-bbox="126 823 191 865">7.SP</p> <p data-bbox="224 793 750 852">Draw informal comparative inferences about two populations.</p>	<ul data-bbox="824 793 1451 911" style="list-style-type: none"> • Students practice making informal comparative inferences about two or more data sets by looking at measures of central tendency in online extension activities.
<p data-bbox="126 982 191 1024">7.SP</p> <p data-bbox="224 953 727 1012">Investigate chance processes, and develop, use, and evaluate probability models.</p>	<ul data-bbox="824 953 1468 1079" style="list-style-type: none"> • Students find probabilities of simple events. • Meaningful contexts for problems support student understanding of probability as a measure of greater or lesser likelihood.
<p data-bbox="126 1167 191 1209">8.SP</p> <p data-bbox="224 1138 659 1197">Investigate patterns of association in bivariate data.</p>	<ul data-bbox="824 1138 1474 1264" style="list-style-type: none"> • Statistics articles provide students with opportunities to interpret and analyze scatter plots. • Students interpret slope and look for trends using graphs in Statistics articles.
<h3 data-bbox="224 1335 425 1386">Functions</h3> <p data-bbox="126 1428 191 1470">8.F</p> <p data-bbox="224 1398 704 1428">Define, evaluate, and compare functions.</p>	<ul data-bbox="824 1398 1451 1482" style="list-style-type: none"> • Articles focus on promoting student understanding of functions using function tables and maps and representing functions in different ways.
<p data-bbox="126 1562 191 1604">8.F</p> <p data-bbox="224 1533 656 1591">Use functions to model relationships between quantities.</p>	<ul data-bbox="824 1533 1468 1751" style="list-style-type: none"> • Specific articles focus on supporting students in using functions, asking them to fill in function tables, draw and use function maps, and construct functions to model linear relationships. • Students develop an understanding of functional relationships by interpreting and analyzing function tables and trends in line graphs.

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