

Grade 5 Math Topics

The core math topics covered in grade 5 typically are:

Numbers and Operations

- multiplying and dividing by powers of ten
- multiplying and dividing large whole numbers in columns
- rectangular arrays
- add and subtract fractions with unlike denominators
- multiply fractions by fractions and / or whole numbers
- divide fractions by whole numbers
- reading, writing and comparing decimals
- add, subtract, multiply and divide decimals
- use of parenthesis in expressions
- word problems involving fractions and decimals
- exponents and powers of ten

Geometry

- rectangular prisms
- volumes of 3 dimensional shapes
- coordinate planes
- categorizing 2D shapes by various attributes

Measurement

- convert measurements between different types of units (metric and customary)
- multi-step word problems in measurement

Data Analysis

- create line plots to display data
- solve real world word problems by referring to line plots

The [common core math standards for grade 5](#) are also worth reviewing.

Grade 5 Literature to Foster the Love of Math

Title	Author	Topic
<i>Flatland</i>	Abbot, Edwin.	Geometry
<i>Mr. Archimedes' Bath</i>	Allen, Pamela	Geometry

<i>Who Sank the Boat?</i>	Allen, Pamela	Geometry
<i>Anno's Magic Seeds</i>	Anno, Mitsumasa	Patterns and Algebra Concepts
<i>Anno's Multiplying Jar</i>	Anno, Mitsumasa and Masaichiro Anno	Addition, Subtraction, Multiplication, and Division
<i>The King's Chessboard</i>	Birch, David	Addition, Subtraction, Multiplication, and Division
<i>Jim and the Beanstalk</i>	Borden, Louise	Data, Chance, and Probability
<i>Spaghetti and Meatballs for All</i>	Burns, Marilyn	Addition, Subtraction, Multiplication, Division, Fractions
<i>Counting on Frank</i>	Clement, Rod	Number and Order
<i>Do You Wanna Bet?</i>	Cushman, Jean	Data, Chance, and Probability
<i>Esio Trot</i>	Dahl, Roald	Data, Chance, and Probability
<i>Fourscore and 7: Investigating Math in American History</i>	Franco, Betsy	Fractions, Decimals, and Percents; Rates and Proportions
<i>A Cloak for the Dreamer</i>	Friedman, Aileen	Geometry
<i>Less Than Nothing is Really Something</i>	Froman, Robert	Addition, Subtraction, Multiplication, and Division
<i>Speed Mathematics</i>	Handley, Bill	Number and Order
<i>Only One</i>	Harshman, Marc	Fractions, Decimals, and Percents; Rates and Proportions

<i>The Librarian Who Measured the Earth</i>	Lasky, Kathryn	Geometry
<i>Fraction Action</i>	Leedy, Loreen	Fractions, Decimals, and Percents; Rates and Proportions
<i>Gator Pie</i>	Matthews, Louise	Fractions, Decimals, and Percents; Rates and Proportions
<i>Eating Fractions</i>	McMillan, Bruce	Fractions, Decimals, and Percents; Rates and Proportions
<i>12 Ways To Get To 11</i>	Merriam, Eve	Number and Order
<i>Sir Cumference and the Sword in the Cone</i>	Neuschwander, Cindy	Geometry
<i>Sir Cumference and the First Round Table</i>	Neuschwander, Cindy	Geometry
<i>Pi: A Math Adventure</i>	Neuschwander, Cindy	Geometry
<i>A Remainder of One</i>	Pinczes, Elinor J.	Addition, Subtraction, Multiplication, and Division
<i>One Hundred Hungry Ants</i>	Pinczes, Elinor J.	Addition, Subtraction, Multiplication, and Division
<i>How Much Is a Million</i>	Schwartz, David M.	Number and Order
<i>If You Hopped Like a Frog</i>	Schwartz, David M.	Fractions, Decimals, and Percents; Rates and Proportions
<i>Math Curse</i>	Scieska, Jon	Number and Order
<i>The Boy Who Reversed Himself</i>	Sleator, William	Geometry

<i>Longitude</i>	Sobel, Dava	Reference Frames
<i>Grandfather Tang's Story</i>	Tompert, Ann	Geometry
<i>Jumanji</i>	Van Allsburg, Chris	Geometry
<i>Mummy Math: An Adventure in Geometry</i>	Cindy Neuschwander	Geometry
<i>Fraction in Disguise</i>	Einhorn, Edward, Clark, David	Fractions