

Grade 5

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DATE COMPLETED

Divide using whole and mixed numbers.	I
Multiply fractions using the canceling method.	I
Multiply and divide using mental math.	I

Write and interpret numerical expressions.

Use parentheses, brackets, or braces in numerical expressions, and evaluate expressions with these symbols*.	D
Correctly apply order of operations.	I
Solve fraction and decimal word problems.	D

ALGEBRA

Recognize, explain, and compute ratios.	D
Recognize, explain, and compute proportions.	I
Identify unknown quantities, algebraic phrases.	M
Use a variable as a place holder.	D
Solve simple equations and expressions informally.	m

Analyze patterns and relationships.

Identify and form ordered pairs consisting of corresponding terms and graph the ordered pairs on a coordinate plane*.	I/D
Understand patterns and relationships by observing, describing, comparing, and creating.	D
Sort and classify by characteristics.	D
Predict what comes next and looking at missing elements.	D
Distinguish between growing and repeating patterns.	D
Represent information numerically, graphically, and verbally.	D
Discuss and analyze change.	D
Identify and compute ratios and proportions.	I
Identify inequalities.	M
Define "Set."	D
Solve word problems with two statements of equality.	D
Solve word problems by applying the Distance formula: Distance = rate X time.	D
Solve word problems involving unit pricing.	D

MEASUREMENT AND DATA

Make conversions of measurement units within a system.	D
Determine length using 1/8, 1/6 inch.	D

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Determine length using millimeter, centimeter, decimeter, meter, decameter, hectometer, kilometer.	D
Determine capacity using milliliter, liter, kiloliter.	D
Determine weight, mass using gram, kilogram.	D
Determine temperature using Celsius.	D

Time

Recognize, read, and write minutes before and after the hour.	m
Recognize, read, and write AM and PM.	m
Recognize, read, interpret, and create a sequence of events/timelines.	m
Solve problems involving elapsed time with and without changing units.	M
Recognize, read, interpret, and create schedules.	D
Recognize, read, and interpret time zones.	D

Money

Make change.	m
Explain and construct scale drawings.	M

GEOMETRY

Use a protractor to correctly measure and create angles.	m
Use a compass correctly.	m
Compute the circumference of a circle.	M
Compute the surface area of a prism.	I
Define, compare, measure, and calculate volume of a triangular and rectangular prism in various units.	M
Relate volume to the operations of multiplication and addition and solve real world and mathematical problems involving volume.*	I
Define, compare, measure, and calculate perimeter and area of a square, rectangle, triangle, parallelogram, trapezoid.	M
Investigate and predict the results of slide, turn, and flip.	D
Recognize and create straight, intersecting, parallel, and perpendicular lines.	D
Identify the angle vertex.	I
Determine angle measurement.	D
Identify a right angle.	M
Identify acute, obtuse, and straight angles.	D
Identify congruent angles.	D

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Identify adjacent angles.	I
Identify types of triangles - isosceles, scalene, acute, obtuse, equilateral, and right.	I
Identify the base and height of a triangle.	D
Identify quadrilaterals, parallelograms, rhombuses, trapezoids.	D
Identify pentagons, hexagons, octagons.	D
Identify the center, chord, diameter, Pi, and radius of a circle.	D
Identify and measure the degrees and arc of a circle.	I
Identify irregular shapes.	D
Identify solid figures - cubes, cylinders, sphere, cones.	m
Identify pyramids.	D
Determine symmetry.	D

Construct convincing arguments and proofs to solve problems using geometric figures and patterns:

Using simple materials.	M
Using diagrams.	D
Using technology.	D
Develop, formulate, and communicate logical arguments.	D

STATISTICS AND PROBABILITY

Collect and describe data.	D
Interpret and create picture and bar graphs.	m
Interpret and create tables.	D
Interpret and create circle graphs.	D
Interpret and create Venn diagrams.	D
Identify and label dependent and independent variables.	I
Determine or compute mean, median, mode, range.	D
Compute probability: permutations, combinations, single events.	D
Conduct surveys, experiments, demonstrate and design data collections methods.	D
Make inferences by drawing conclusions, communicating results, and making decisions/predictions.	D
Discuss and analyze change by measuring and comparing quantities.	D
Discuss and analyze change by using tables and graphs.	D

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Represent and interpret data

Create a line plot to display a data set.*	D
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Graph points on the coordinate plane to solve real-world and mathematical problems.

Read and create solid line graphs.	M
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Read and create broken line graphs.	M
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Use a coordinate system to represent real world and mathematical problems using the first quadrant.	I/D
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PROBLEM SOLVING

Analyze and plan the problem determining the appropriate strategy by:

Drawing pictures.	D
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Creating original problems.	D
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Determining if information is sufficient to solve.	D
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Relating to an easier problem.	D
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Using tables, graphs, and diagrams.	D
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Relating to an easier problem.	D
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Using tables, charts, graphs, and diagrams.	D
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Using trial and error.	D
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Working backwards.	D
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Sorting, classifying, and using patterns.	D
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Using estimation.	D
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Choosing the correct operation.	D
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Solve problems involving percents both less than and greater than 100%.	D
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Check reasonableness of solutions.	D
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