

Grade 6

I=Introduce

D=Develop

I/D=Intro/Dev

M=Mastery

m=maintain

DATE COMPLETED

Identify the greatest common factor of two or more whole numbers less than or equal to 100.	M
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Decimals

Compute equivalent decimals, inequalities.	M
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Rename decimals as fractions and fractions as decimals.	M
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Change fraction to percent and percent to fraction.	m
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Round decimals:

To the nearest billionth	M
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To the nearest whole number.	m
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Compare and order numbers:

Decimals.	M
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Fractions.	M
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Combinations of decimal, fraction, percent.	M
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Comparing sets, numbers.	M
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Use \leq , \geq	I
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Recognize, read, and write place value:

To the left of the decimal through nine digits.	m
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To the right of the decimal, through 6 digits and beyond.	m
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Round numbers:

To ten thousand.	m
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To the nearest cent.	M
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Perform operations using whole numbers and integers:

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

Estimate addition.	M
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Add using negative numbers.	D
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Apply the commutative property of addition.	m
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Apply the associative property of addition.	m
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Use mental math.	D
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Subtract.

Estimate.	M
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Subtract using negative numbers.	I
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Use mental math.	D
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Multiply.

Estimate.	M
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Use ratio reasoning to convert measurement units; manipulate and transform units appropriately when multiplying or dividing quantities.*	I
Recognize, read, and write ratios and use language to describe a ratio relationship between two quantities.	D
Calculate proportions.	I
Write, interpret, and explain signs of numbers in ordered pairs as indicating locations in quadrants of the coordinate plane.	M

Solve real-world and mathematical problems by graphing points in all four quadrants of the coordinate plane. Include use of coordinates and absolute value to find distances between points with the same first coordinate or the same second coordinate.

MEASUREMENT AND DATA

Measure geometric figures by:

Comparing and ordering objects without measuring tools:

Distance, length, and height.	m
Capacity, weight.	m
Mass.	m

Determine proper tool for measurement, i.e. ruler, thermometer, scale, protractor	M
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Comparing and/or ordering objects using appropriate units:

U.S. customary system

Length using inch, half inch, quarter inch, foot, yard, mile.	m
Length using 1/8, 1/ 16 inch.	M
Capacity using cup, pint, quart, gallon.	m
Weight using ounce, pound, ton.	m
Temperature using Fahrenheit.	m
Make conversions within system.	M

Metric system

Length using millimeter, centimeter, decimeter, meter, dekameter, hectometer, kilometer.	
Capacity using milliliter, liter, kiloliter.	D
Weight, mass using gram, kilogram.	D
Temperature using Celsius.	D
Make conversions within system.	D

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Calculate elapsed time, duration:

Without changing units.	m
With changing units.	m
Interpret and creat schedules.	D
Interpret time zones.	M

GEOMETRY

Describe, model, draw, and classify:

Plane elements:

Point	m
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Line:

1) Straight	M
2) Intersecting, parallel, perpendicular	I
Ray, segment (sides)	M

Angles:

Vertex.	M
Measurement.	D

Identify types of angles:

Right.	m
Acute, obtuse, straight.	M
Congruent.	M
Adjacent.	D
Supplementary, complementary.	I

Identify, draw and classify:

Triangles.	m
Isosceles, scalene, acute, obtuse, equilateral, right triangles.	D
Identify base/ height (altitude) of a triagnle.	I

Identify, draw, and classify quadrilaterals:

Squares, rectangles, pentagons, hexagons, octagons.	M
Parallelograms, rhombuses, trapezoids.	m
Heptagons and beyond.	I
Identify convex, concave polygons.	I

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STATISTICS AND PROBABILITY

Collect and describe data.	D
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Organize and construct data.

Identify, draw, label, and analyze:

Real graph (using actual objects).	m
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Picture graph, bar graph.	m
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Tables.	D
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Circle graph.	D
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Line graph, solid or broken.	m
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Venn Diagram.	D
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Identify and label dependent and independent variables.	M
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Read, calculate, and interpret data.

Identify or calculate mean, median, mode, range (average).	M
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Calculate the probability of:

Single event.	D
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Permutations, combinations.	D
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Format Questions.

Conduct experiments, surveys.	D
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Demonstrate data collection methods.	D
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Design data collection methods.	D
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Make inferences.

Draw conclusion.	D
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Communicate results.	D
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Make decisions, predictions.	D
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PROBLEM SOLVING

Analyze and plan a problem determining the appropriate strategy by: drawing pictures, creating original problems, determining if information is sufficient to solve, relating to an easier problem, using tables, charts, graphs, and diagrams, trial and error, working backwards, sorting classifying and using patterns, estimation, choosing correct operation.	D
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