

# Math Common Core

# Grade 5

Number	Standard	Description
1	OA.A1	Use ( ), [ ], in number sentences and solve using correctly
2	OA.A2	Write words that record calculations: “add 8 and 7, then multiply by 2” OR transfer words: $2 \times (8+7)$ . Know that $3 \times (198098 + 289)$ is 3 times as large as $198098 + 289$ without having to solve
3	OA.B3	generate number patterns using 2 given rules: ex: “Add 3” and “Add 6” then generate terms and informally explain how one sequence is twice the other
4	NBT.A.1	Compare place value units (understand the quantity shift: $\rightarrow 10\times$ ; $\leftarrow 1/10$ )
5	NBT.A.2	Explain patterns in the number of zeroes when multiplying by powers of 10 and understand where a decimal point belongs when x or dividing by 10; use whole number exponents to denote powers of 10
6	NBT.A.3a	Read, write, decimals to the thousandths (including numbers, words, expanded form: $3.42 = 3 \times 1 + 4 \times (1/10) + 2 \times (1/100)$ )
7	NBT.A.3b	Compare two decimals to thousandths based on meanings of the digits in each place, use $<$ , $>$ , $=$
8	NBT.A.4	Round decimals to any place
9	NBT.B.5	fluently multiply multi-digit whole numbers using standard algorithm
10	NBT.B.6	Find whole number quotients of whole numbers up to 4-digit dividends and 2-digit divisors using multiplication strategies (based on place value, properties of operations, relationship between x and division) and explain, illustrate work through equations, rectangular arrays and/or area models
11	NBT.B.7	Add subtract, multiply, divide decimals to the hundredths, using concrete models. Explain reasoning.
12	NF.A1	Add and subtract fractions with unlike denominators (including mixed numbers) $2/3 + 5/4 = 8/12 + 15/12$
13	NF.A2	solve word problems involving addition and subtraction of fractions referring to the same whole
14	NF.B3	Interpret a fraction as a division of a numerator by the denominator. Solve word problems involving division of whole numbers leading to fractional or mixed number answers (Equal share problems)
15	NF.B4a	Use a visual or story context model to show $2/3 \times 4 = 8/3$ And/Or $2/3 \times 4/5 = 8/15$
16	NF.B4b	find area of a rectangle with fractional side lengths, prove formula $l \times w$
17	NF.B5a	Interpret “x” as resizing by comparing the size of a product to the size of one factor w/o solving
18	NF.B5b	Explain why multiplying $x \# > 1$ gives a larger product while multiplying by $\# < 1$ gives smaller
19	NF.B6	Solve real world problems involving mult of fractions and mixed numbers use visuals and equations
20	NF.B7a	Divide fractions $\rightarrow$ create story for $1/3$ divided by 4 and use a visual to show, explain relationship between multiplication and division $\rightarrow 1/3$ divided by 4 = $1/12$ because $1/12 \times 4 = 1/3$
21	NF.B7b	Divide fractions $\rightarrow$ create a story for $4/(1/5)$ and use visual to show, explain relationship between multiplication and division $\rightarrow 4$ divided by $1/5 = 20$ because $20 \times 1/5 = 4$
22	NF.B7c	Solve real world problems involving division of unit fractions
23	MD.A1	Convert units in a given system (5cm to .05m) and use to solve multi step word problems
24	MD.B.2	Make a line plot to display a data set of measurements in fractions of a unit, use to solve problems (Ex: g ____ measures of liquid in identical beakers, find the amount of liquid each beaker would contain if the total amount were redistributed equally)
25	MD.C3a	Know “unit cube” and use to measure volume
26	MDC3b	Know how to solve for volume in “n” unit cubes or “cubic units” (packed without gaps or overlap)
27	MD.C4	Measure volume by counting unit cubes using cubic cm, in, ft and other
28	MD.C5a	Find the volume of a right rectangular prism and prove the formula $b \times h$ (base x height)
29	MD.C5b	apply the formula $V = l \times w \times h$ and $V = b \times h$ accurately
30	MD.C5c	recognize volume as additive and use to solve real world problems
31	G.A1	Use axes to define a coordinate system (include: origin, x and y coordinates, x and y axis)
32	G.A2	Represent & interpret real world problems by graphing points in the 1 <sup>st</sup> quadrant of a coordinate plane
33	G.B3	Understand that attributes belonging to a category of 2-D figures also belong to all subcategories of that category Ex: a rectangle has 4 right angles, and a square is a rectangle, a square has 4 right angles
34	G.B4	Classify 2-D figures in a hierarchy based on properties

Note: Priority Reteach Standards Grades 3 – 4

	Math Facts	
	Number Sense	