

Standard 1: Number and Computation Benchmark 1: Number Sense

Organizer	Indicator lead in phrase/wording	Kindergarten	First Grade	Second Grade	Third Grade	Fourth Grade	Fifth Grade	Sixth Grade	Seventh Grade	Eighth Grade	Ninth and Tenth Grade
Equivalent Representations	knows, explains, and represents/uses equivalent representations for ...	K.1...1-to-1 match with numbers 0 through 20 (identifies, states, writes) using concrete objects	K.1...numbers from 0 through 100 using concrete objects	K.1...numbers from 0 through 1,000 using concrete objects	K.1...numbers from 0 through 10,000, fractions (halves, fourths, thirds, eighths, tenths, sixteenths) and decimals through tenths	K.1...numbers from 0 through 100,000, fractions ((halves, fourths, thirds, eighths, tenths, twelfths, sixteenths, hundredths and mixed numbers) and decimals that are monetary	▲K.1...numbers from 0 through 1,000,000 positive fractions and decimals that are monetary amounts	K.1...rational numbers (including percents and rational number bases)	K.1...rational numbers and simple algebraic expressions	K.1...rational numbers and simple algebraic expressions	K.1...real numbers and algebraic expressions
	solves and/or generates real-world problems with equivalent representations to/of ...	A.1...compare and order from 0 through 10	A.1...compare and order from 0 through 50	A.1...compare and order 0 through 1,000 and mixed coins to \$1.00; add and subtract 0 through 100, and equivalent values of coins to \$1.00 without mixing coins	A.1...compare and order 0 through 5,000; add and subtract 0 through 1,000	A.1...compare and order 0 through 100,000, add/subtract 0 through 10,000, decimals that are monetary amounts and multiply (2 by 1)	A.1 & A.3...compare and order 0 through 1,000,000, positive fractions and greater than or equal to zero through hundredths place, and integers; add/subtract 0 through 100,000, decimals that are monetary amounts, multiply	A.1...integers, positive fractions, and decimals	▲A.1...rationals, simple algebraic expressions, and fraction and decimal approximations of pi	A.1...rationals and simple algebraic expressions	A.1...reals and simple algebraic expressions
	knows, explains, and/or uses equivalent representations of/to ...				K.3...add and subtract numbers 0 through 100	▲K.3...add and subtract numbers 0 through 1,000 and multiply using basic facts 1-5 and 10s, and add/subtract money		K.4...percents and decimals for one whole, one-half, one-fourth, three-fourths, and one tenth through nine tenths	▲K.4...numerical relationships between percents, decimals, and fractions 0 - 1		
Coins	identifies, recognizes, states, and/or counts ...	K.5 ... value of pennies, nickels, dimes, and quarters using money models	K.5 & K.6...value of each coin and type of currency (\$1, \$5, \$10) using money models and a like group of coins (pennies, nickels, dimes)	K.5 & K.6...total value (to \$1) of a mixed group of coins and a like group of currency (to \$100)	▲K.4...total value of mixed coins and bills (\$50 or less) A.3 ... amount of change owed (to \$100)						

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knows, explains, and represents/uses equivalent representations for ...	K.1...real numbers and algebraic expressions	K.1...real numbers and algebraic expressions	K.1...complex numbers and algebraic expressions	K.1...real numbers, algebraic expressions, and trigonometric expressions	K.1...real numbers, algebraic expressions, data calculations including central tendencies, variabilities, and correlation measures.		K.1...rational numbers	K.1...rational numbers
solves and/or generates real-world problems with equivalent representations to/of ...	A.1...reals and simple algebraic expressions	A.1...reals and simple algebraic expressions	A.1...complex and algebraic expressions	A.1...reals, algebraic expressions, and trigonometric expressions	A.1...reals, algebraic expressions, data calculations including central tendencies, variabilities, and correlation measures.		A.1...rational expressions	A.1...rational expressions
knows, explains, and/or uses equivalent representations of/to ...							▲K.4...numerical relationships between percents, decimals, and fractions	▲K.4...numerical relationships between percents, decimals, and fractions
identifies, recognizes, states, and/or counts ...							▲K.4...amounts of money and their applications in real world situations	▲K.4...amounts of money and their applications in real world situations

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Compare and Order	compares, orders, and/or explains ...	K.2...numbers 0 through 20 using concrete objects	K.2...numbers 0 through 100 and fractions with like denominators (halves and fourths) using concrete objects	K.2...numbers 0 through 1,000 and fractions with like denominators (halves, fourths, thirds, eighths) using concrete objects	▲K.2...numbers 0 through 10,000, fractions with like denominators (halves, fourths, thirds, eighths, tenths, sixteenths), and decimals (tenths)	K.2...numbers 0 through 100,000, fractions including mixed numbers (halves, fourths, thirds, eighths, tenths, sixteenths, hundredths), and decimals that are monetary amounts	K.2...integers, fractions including mixed numbers, and decimals K.3 ... numerical relationships between whole numbers, fractions, and decimals	▲K.2...integers, fractions including mixed numbers, and decimals (thousandths) K.3 ... relative magnitude between whole numbers, fractions, and decimals	K.2...rationals and the irrational number pi K.3 ... relative magnitude between rational numbers and between rational numbers the irrational number pi	K.2...rationals, the irrational number pi, and algebraic expressions K.3 ... relative magnitude between rational numbers, the irrational number pi, and algebraic expressions	K.2...real numbers and/or algebraic expressions and the relative magnitude between them
	determines the reasonableness of ...		A.2...values between 0 through 50		A.2...real-world solutions to problems involving 0 through 1,000, fractions, and decimals that are monetary amounts	A.2...real-world solutions to problems involving 0 through 10,000, fractions, and decimals that are monetary amounts	A.2...real-world solutions to problems involving 0 through 100,000, fractions (including mixed numbers), and decimals	A.2...real-world solutions to problems involving integers, fractions, and decimals (thousandths)	A.2...real-world solutions to problems involving rational numbers, the irrational number pi, and simple algebraic expressions	A.2...real-world solutions to problems involving rational numbers, the irrational number pi, and simple algebraic expressions	A.2...real-world solutions to problems involving real numbers and algebraic expressions
Numerical Recognition	recognizes, identifies, and uses ...	K.3...a whole, a half, and parts of a whole K.4 ... positions as first and last	K.3 & K.4...a whole, a half, a fourth, and equal parts of a whole (halves, fourths, thirds) and ordinal numbers first (1st) through tenth (10th)	K.4...ordinal positions from first (1st) through twentieth (20th)			K.5...integers in given real-world problems			K.4...irrational numbers	
	knows and/or explains what happens to the products/quotients when ...		A.3... demonstrates that smaller whole numbers are within larger whole numbers using whole numbers from 0 to 30						K.4...a whole number is multiplied or divided by a rational number greater than zero and less than one, greater than one, or zero	▲K.5...a positive number is multiplied or divided by a rational number greater than zero and less than one, greater than one, or zero	K.3...a real number is multiplied or divided by a rational number greater than zero and less than one, greater than one, or zero
	explains and/or determines the absolute value of								K.5...rational numbers	K.6...real numbers	

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compares, orders, and/or explains ...	K.2...real numbers and/or algebraic expressions and the relative magnitude between them	K.2...real numbers and/or algebraic expressions and the relative magnitude between them	K.2...complex numbers and/or algebraic expressions and the relative magnitude between them	K.2...real numbers, algebraic expressions, trigonometric expressions, and the relative magnitude between them				
determines the reasonableness of ...	A.2...real-world solutions to problems involving real numbers and algebraic expressions	A.2...real-world solutions to problems involving real numbers and algebraic expressions	A.2...real-world solutions to problems involving complex numbers and algebraic expressions	A.2...real-world solutions to problems involving real numbers, algebraic expressions, and trigonometric expressions			A.2...real-world solutions to problems involving rational numbers	A.2...real-world solutions to problems involving rational numbers
recognizes, identifies, and uses ...								
knows and/or explains what happens to the products/quotients when ...	K.3...a real number is multiplied or divided by a rational number greater than zero and less than one, greater than one, or zero	K.3...a real number is multiplied or divided by a rational number greater than zero and less than one, greater than one, or zero	K.3...a real number is multiplied or divided by a complex number greater than zero and less than one, greater than one, or zero				K.3...a rational number is multiplied or divided by a rational number greater than zero and less than one, greater than one, or zero	K.3...a rational number is multiplied or divided by a rational number greater than zero and less than one, greater than one, or zero
explains and/or determines the absolute value of	K.6...real numbers		K.6...complex numbers					