

Pomeroy

Essential Standards for Fourth Grade

2019-2020		
Boulder (Need to Know)	Rock (Nice to Know)	Butterfly (Land & Leave)
<p>4.2B Represent the value of the digit in whole numbers through 1,000,000,000 and decimals to the hundredths using expanded notation and numerals.</p> <p>4.4A Add and subtract whole numbers and decimals to the hundredths place using the standard algorithm.</p> <p>4.3D Compare two fractions with different numerators and different denominators and represent the comparison using the symbols $>$, $=$, or $<$.</p> <p>4.3E Represent and solve addition and subtraction of fractions with equal denominators using objects and pictorial models that build to the number line and properties of operations.</p> <p>4.2G Relate decimals to fractions that name tenths and hundredths.</p> <p>4.4A Add and subtract whole numbers and decimals to the hundredths place using the standard algorithm.</p> <p>4.8C Solve problems that deal with measurements of length, intervals of time, liquid volumes, mass, and money using addition, subtraction, multiplication, or division as appropriate.</p> <p>4.4D Use strategies and algorithms, including the standard algorithm, to multiply up to a four-digit number by a one-digit number and to multiply a two-digit number by a two digit</p>	<p>4.2C Compare and order whole numbers to 1,000,000,000 and represent comparisons using the symbols $>$, $<$, or $=$.</p> <p>4.3A Represent a fraction a/b as a sum of fractions $1/b$, where a and b are whole numbers and $b > 0$, including when $a > b$.</p> <p>4.3B Decompose a fraction in more than one way into a sum of fractions with the same denominator using concrete and pictorial models and recording results with symbolic representations.</p> <p>4.3C Determine if two given fractions are equivalent using a variety of methods.</p> <p>4.2E Represent decimals, including tenths and hundredths, using concrete and visual models and money.</p> <p>4.4C Represent the product of 2 two-digit numbers using arrays, area models, or equations, including perfect squares through 15 by 15.</p> <p>4.4E Represent the quotient of up to a four-digit whole number divided by a one-digit whole number using arrays, area models, or equations</p> <p>4.4F Use strategies and algorithms, including the standard algorithm, to divide up to a four-digit dividend by a one-digit divisor.</p> <p>4.6B Identify and draw one or more lines of symmetry, if they exist, for a two-dimensional figure. (RC3: Supporting)</p>	<p>4.2A Interpret the value of each place value position as 10 times the position to the right and as one-tenth of the value of the place to its left through the hundred thousands place.</p> <p>4.2D Round whole numbers to a given place value through the hundred thousands place.</p> <p>4.2G Round to the nearest 10, 100, or 1,000 or use compatible numbers to estimate solutions involving whole numbers.</p> <p>4.3F Evaluate the reasonableness of sums and differences of fractions using benchmark fractions 0, $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$, and 1 referring to the same whole.</p> <p>4.2A Interpret the value of each place-value position as 10 times the position to the right and as one-tenth of the value of the place to its left.</p> <p>4.2F Compare and order decimals using concrete and visual models to the hundredths.</p> <p>4.2H Determine the corresponding decimal to the tenths or hundredths place of a specified point on a number line. (RC1</p> <p>4.3G Represent fractions and decimals to the tenths or hundredths as distances from zero on a number line.</p> <p>4.4B Determine products of a number and 10 or 100 using properties of operations and place value understandings.</p> <p>4.4G Round to the nearest 10, 100, or 1,000 or use compatible numbers to</p>

<p>number. Strategies may include mental math, partial products, and the commutative, associative, and distributive properties.</p> <p>4.4H Solve with fluency one- and two-step problems involving multiplication and division, including interpreting remainders.</p> <p>4.6D Classify two-dimensional figures based on the presence or absence of parallel or perpendicular lines or the presence or absence of angles of a specified size.</p> <p>4.7C Determine the approximate measures of angles in degrees to the nearest whole number using a protractor.</p> <p>4.5A Represent multi-step problems involving the four operations with whole numbers using strip diagrams and equations with a letter standing for the unknown quantity.</p> <p>4.5B Represent problems using an input-output table and numerical expressions to generate a number pattern that follows a given rule representing the relationship of the values in the resulting sequence and their position in the sequence.</p> <p>4.5D Solve problems related to perimeter and area of rectangles where dimensions are whole numbers.</p> <p>4.9A Represent data on a frequency table, dot plot, or stem-and-leaf plot marked with whole numbers and fractions.</p>	<p>4.6A Identify points, lines, line segments, rays, angles, and perpendicular and parallel lines.</p> <p>4.6C Apply knowledge of right angles to identify acute, right, and obtuse triangles.</p> <p>4.7E Determine the measure of an unknown angle formed by two non-overlapping adjacent angles given one or both angle measures.</p> <p>4.8C Solve problems that deal with measurements of length, intervals of time, liquid volumes, mass, and money using addition, subtraction, multiplication, or division as appropriate.</p> <p>4.8B Convert measurements within the same measurement system, customary or metric, from a smaller unit into a larger unit into a smaller unit when given other equivalent measures represented in a table.</p> <p>4.9B Solve one- and two-step problems using data in whole number, decimal, and fraction form in a frequency table, dot plot, or stem-and-leaf plot.</p>	<p>estimate solutions involving whole numbers.</p> <p>4.7A Illustrate the measure of an angle as the part of a circle whose center is at the vertex of the angle that is "cut out" by the rays of the angle. Angle measures are limited to whole numbers.</p> <p>4.7B Illustrate degrees as the units used to measure an angle, where $1/360$ of any circle is one degree and an angle that "cuts" $n/360$ out of any circle whose center is at the angle's vertex has a measure of n degrees. Angle measures are limited to whole numbers.</p> <p>4.7D Draw an angle with a given measure.</p> <p>4.8A Identify relative sizes of measurement units within the customary and metric systems.</p> <p>4.5C Use models to determine the formulas for the perimeter of a rectangle ($l + w + l + w$ or $2l + 2w$), including the special form for perimeter of a square ($4s$) and the area of a rectangle ($l \times w$).</p> <p>4.10A Distinguish between fixed and variable expenses.</p> <p>4.10B Calculate profit in a given situation.</p> <p>4.10C Compare the advantages and disadvantages of various savings options.</p> <p>4.10D Describe how to allocate a weekly allowance among spending; saving, including for college; and sharing.</p> <p>4.10E Describe the basic purpose of financial institutions, including keeping money safe, borrowing money, and lending.</p>
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