

WHAT STUDENTS NEED TO KNOW AND BE ABLE TO DO IN 4TH GRADE


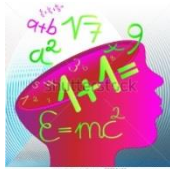


Operations & Algebraic Thinking	Number & Operations in Base Ten	Measurement and Data
<p>I can interpret a understand equation as a comparison using groups.</p> <p>I can explain a multiplication equation.</p> <p>I can represent word problems using equations with a letter standing for the unknown number.</p> <p>I can find multiples of any given one digit number.</p> <p>I can determine if any number from 1-100 is a multiple of a given one digit number.</p> <p>I can find all factor pairs of any given number from 1-100.</p> <p>I can tell whether any number 1-100 is a prime or composite by listing its factors.</p> <p>I can generate the next number or shape in any pattern.</p>	<p>I can name the value of any given digit in a number up to 1,000,000.</p> <p>I can compare the value of two different places within a number up to 1,000,000.</p> <p>I can read and write a multi-digit whole number up to 1,000,000 in all 3 forms (standard, word, and expanded).</p> <p>I can compare two multi-digit numbers using $>$, $<$ or $=$.</p> <p>I can round a multi-digit whole number to any place.</p> <p>I can fluently add and subtract multi-digit whole numbers.</p>	<div data-bbox="1554 406 1827 600" data-label="Image"> </div> <div data-bbox="1415 641 2009 747" data-label="Section-Header"> <p>Numbers and Operations - Fractions</p> </div> <div data-bbox="1554 795 1848 990" data-label="Image"> </div> <div data-bbox="1415 1055 2009 1161" data-label="Section-Header"> <p>Geometry</p> </div> <div data-bbox="1554 1185 1890 1445" data-label="Image"> </div>

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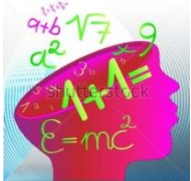



Operations & Algebraic Thinking	Number & Operations in Base Ten	Measurement and Data
<p>I can apply the four basic operations to solve multi-step word problems.</p> <p>I can understand the meaning of remainders in multi-step word problems.</p> <p>I can estimate and tell if my answer is reasonable using rounding.</p> <p>I can create a number or shape pattern which follows a given rule.</p> <p>I can find a rule for any number or shape pattern.</p> <p>I can generate the next number or shape in any pattern.</p>	<p>I can multiply a whole number up to four digits by a one digit whole number.</p> <p>I can multiply two 2 digit numbers using strategies based on place value and the properties of operations.</p> <p>I can illustrate and explain my calculations by using a written equation, rectangular array, and/or area model.</p> <p>I can apply the inverse operation to demonstrate the relationship between multiplication and division.</p> <p>I can use place value and properties of operations to divide up to 4 digit dividends by 1 digit divisors with or without remainders.</p> <p>I can illustrate and explain my calculations by using a written equation, rectangular array, and/or area models.</p>	<div data-bbox="1570 435 1822 630" data-label="Image"> </div> <div data-bbox="1415 672 2009 777" data-label="Section-Header"> <p>Numbers and Operations - Fractions</p> </div> <div data-bbox="1570 834 1850 1019" data-label="Image"> </div> <div data-bbox="1415 1089 2009 1187" data-label="Section-Header"> <p>Geometry</p> </div> <div data-bbox="1570 1230 1885 1474" data-label="Image"> </div>

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Number and Operations - Fractions	Number and Operations - Fractions	Measurement and Data
<p>I can recognize equivalent fractions by using visual models.</p> <p>I can generate equivalent fractions using visual models.</p> <p>I can explain why two fractions are equivalent using visual models.</p> <p>I can compare two fractions with different numerators and different denominators using a variety of strategies (visual model, benchmark fractions, number lines, common denominators or numerators).</p> <p>I can compare two fractions using $>$, $<$, or $=$ and then justify my comparison.</p> <p>I can use addition and subtraction of fractions to represent any fraction less than one whole.</p> <p>I can decompose (break-apart) a fraction into a sum of fractions with the same denominators.</p> <p>I can justify my decomposition by using a fraction model.</p> <p>I can add and subtract mixed numbers with like denominators and simplifying my answer.</p> <p>I can solve word problems involving addition and subtraction of fractions with like denominators.</p>	<p>I can understand a fraction a/b as a multiple of $1/b$.</p> <p>I can multiply a fraction by a whole number.</p> <p>I can solve word problems using multiplication of a fraction by a whole number using visual models and/or equations</p> <p>I can show that fractions with a denominator of 10 are equivalent to fractions with a denominator of 100 by using equivalent fractions.</p> <p>I can add two fractions with denominators of 10 and 100.</p> <p>I can convert a fraction with a denominator of 10 and 100 to a decimal.</p> <p>I can compare two decimals to hundredths by reasoning about their size using a variety of strategies.</p> <p>I can compare decimals using $>$, $<$, or $=$ and justify my comparison.</p>	
	<p style="text-align: center;">Operations & Algebraic Thinking</p>	<p style="text-align: center;">Numbers and Operations in Base Ten</p>
		
		<p style="text-align: center;">Geometry</p>
		

WHAT STUDENTS NEED TO KNOW AND BE ABLE TO DO IN 4TH GRADE

Measurement and Data	Geometry	Operations and Algebraic Thinking
<p>I can convert measurements within one system of units (either metric or customary).</p> <p>I can record measurement equivalence in a two column table and identify the number patterns.</p> <p>I can solve word problems involving measurement and conversion of measurements.</p> <p>I can show measurement quantities using diagrams.</p> <p>I can apply the formula for area of a rectangle to solve real world and mathematical problems using an unknown number.</p> <p>I can apply the formula for perimeter of a rectangle to solve real world and mathematical problems using an unknown number.</p> <p>I can create a line plot to display a data set of measurements in fractions of a unit.</p> <p>I can analyze and interpret a line plot to solve problems involving addition and subtraction of fractions</p> <p>I can measure an angle with reference to a circle.</p> <p>I can use a 1 degree angle to measure any angle.</p> <p>I can measure angles in whole number degrees using a protractor.</p> <p>I can sketch angles as a specified measure using a protractor.</p> <p>I can see that angles can be decomposed into smaller angles.</p> <p>I can see that angles can be composed by using smaller angles.</p> <p>I can find unknown angles on a diagram in real world and mathematical problems.</p>	<p>I can draw points, lines, line segments, rays, angles (right, acute, obtuse).</p> <p>I can draw parallel or perpendicular lines.</p> <p>I can identify these geometric attributes in two- dimensional figures.</p> <p>I can classify 2D figures based on presence or absence of parallel or perpendicular lines, and angles of specified size.</p> <p>I can identify and recognize right triangles.</p> <p>I can recognize a line of symmetry for a 2D figure.</p> <p>I can identify line-symmetric figures and draw lines of symmetry.</p>	<p>Operations and Algebraic Thinking</p>  <p>Numbers and Operations in Base Ten</p>  <p>Number and Operations - Fractions</p> 