New York State Next Generation Mathematics Learning Standards				
	Grade 4 Crosswalk Operations and Algebraic Thinking			
Cluster	NYS P-12 CCLS	NYS Next Generation Learning Standard		
	e.g., interpret $35 = 5 \times 7$ as a statement that 35 is 5 times as many as 7 and 7 times as many as 5. Represent verbal statements of multiplicative comparisons as multiplication equations.	<ul> <li>NY-4.OA.1 Interpret a multiplication equation as a comparison. Represent verbal statements of multiplicative comparisons as multiplication equations.</li> <li>e.g.,</li> <li>Interpret 35 = 5 x 7 as a statement that 35 is 5 times as many as 7 or 7 times as many as 5.</li> <li>Represent "Four times as many as eight is thirty-two" as an equation, 4 x 8 = 32.</li> </ul>		
	<b>4.OA.2</b> Multiply or divide to solve word problems involving multiplicative comparison, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem, distinguishing multiplicative comparison from additive comparison.	<b>NY-4.OA.2</b> Multiply or divide to solve word problems involving multiplicative comparison, distinguishing multiplicative comparison from additive comparison. Use drawings and equations with a symbol for the unknown number to represent the problem.		
	<b>4.OA.3</b> Solve multistep word problems posed with whole numbers and having whole-number answers using the four operations, including problems in which remainders must be interpreted. Represent these problems using equations with a letter standing for the unknown quantity.			

New York State Next Generation Mathematics Learning Standards		
	Grade 4 Crosswalk	
Operations and Algebraic Thinking		
Cluster	NYS P-12 CCLS	NYS Next Generation Learning Standard
Gain familiarity with factors and multiples.	<b>4.OA.4</b> Find all factor pairs for a whole number in the range $1-100$ . Recognize that a whole number is a multiple of each of its factors. Determine whether a given whole number in the range $1-100$ is a multiple of a given one-digit number. Determine whether a given whole number in the range $1-100$ is prime or composite.	<b>NY-4.OA.4</b> Find all factor pairs for a whole number in the range 1-100. Recognize that a whole number is a multiple of each of the factor of

New York State Next Generation Mathematics Learning Standards				
Grade 4 Crosswalk				
	Number and Operations in Base Ten			
Cluster	NYS P-12 CCLS	NYS Next Generation Learning Standard		
Generalize place value understanding for multi- digit whole numbers.	<ul> <li>4.NBT.1 Recognize that in a multi-digit whole number, a digit in one place represents ten times what it represents in the place to its right. For example, recognize that 700 ÷ 70 = 10 by applying concepts of place value and division.</li> <li><u>Note</u>: Grade 4 expectations in this domain are limited to whole numbers less than or equal to 1,000,000.</li> </ul>	<ul> <li>NY-4.NBT.1 Recognize that in a multi-digit whole number, a digit in one place represents ten times what it represents in the place to its right.</li> <li>e.g., Recognize that 70 × 10 = 700 (and, therefore, 700 ÷ 10 = 70) by applying concepts of place value, multiplication, and division.</li> <li><u>Note</u>: Grade 4 expectations are limited to whole numbers less than or equal to 1,000,000.</li> </ul>		
	<ul> <li>4.NBT.2 Read and write multi-digit whole numbers using base-ten numerals, number names, and expanded form. Compare two multi-digit numbers based on meanings of the digits in each place, using &gt;, =, and &lt; symbols to record the results of comparisons.</li> <li><u>Note</u>: Grade 4 expectations in this domain are limited to whole numbers less than or equal to 1,000,000.</li> <li>4.NBT.3 Use place value understanding to round multi-</li> </ul>	<ul> <li>NY-4.NBT.2a. Read and write multi-digit whole numbers using baseten numerals, number names, and expanded form.</li> <li>e.g., 50,327 = 50,000 + 300 + 20 + 7</li> <li>NY-4.NBT.2b Compare two multi-digit numbers based on meanings of the digits in each place, using &gt;, =, and &lt; symbols to record the results of comparisons.</li> <li><u>Note</u>: Grade 4 expectations are limited to whole numbers less than or equal to 1,000,000.</li> </ul>		

**4.NBT.3** Use place value understanding to round multidigit whole numbers to any place.

Note: Grade 4 expectations in this domain are limitereiteu48 163.30p14(l)2.9(t)15(e)17.1(6(ed)-8 Tm ()Tj-5.1(ad7-5.1)]TJ 0 TcEMC TcT /P <a)]TJ 0.05(te)8107 Tw 8.04 -0 0 8.04

New York State Next Generation Mathematics Learning Standards		
Grade 4 Crosswalk		
Number and Operations in Base Ten		
Cluster	NYS P-12 CCLS	NYS Next Generation Learning Standard
Use place value understanding and properties of operations	<b>4.NBT.4</b> Fluently add and subtract multi-digit whole numbers using the standard algorithm.	NY-4.NBT.4
to perform multi-digit arithmetic.	<u>Note</u> : Grade 4 expectations in this domain are limited to whole numbers less than or equal to 1,000,000.	

New York State Next Generation Mathematics Learning Standards			
Grade 4 Crosswalk			
Number and Operations - Fractions			
Cluster	NYS <b>B</b> 6481 0.49495v68v459.6TFm [(NN)S ET12EV196 11PTax/NOUDD18ET>BDG 60.84427182Ac6	05.00 <b>2</b> 2aQ174afi6	

New York State Next Generation Mathematics Learning Standards			
Grade 4 Crosswalk			
Cluster	Number and Operation NYS P-12 CCLS	NYS Next Generation Learning Standard	
Build fractions from unit	<b>4.NF.3</b> Understand a fraction $a/b$ with $a > 1$ as a sum of	<b>NY-4.NF.3</b> Understand a fraction – with $a > 1$ as a sum of fractions $\frac{1}{2}$ .	
fractions by applying and	fractions 1/b.		
extending previous		<u>Note</u> : – refers to the unit fraction for –.	
understandings of operations on whole	a. Understand addition and subtraction of fractions as	NY-4.NF.3a Understand addition and subtraction of fractions as	
numbers.	joining and separating parts referring to the same whole.	joining and separating parts referring to the same whole.	
	b. Decompose a fraction into a sum of fractions with the same denominator in more than one way, recording each	NY-4.NF.3b Decompose a fraction into a sum of fractions with the	
	decomposition by an equation. Justify decompositions,	same denominator in more than one way, recording each	
	e.g., by using a visual fraction model. <i>Examples: 3/8</i> =	decomposition by an equation. Justify decompositions.	
	1/8 + 1/8 + 1/8; $3/8 = 1/8 + 2/8$ ;	a subscription of the sting we delevely as but not limited to	
	$2\frac{1}{8} = 1 + 1 + 1/8 = 8/8 + 8/8 + 1/8.$	e.g., by using a visual fraction model such as, but not limited to: • $\frac{3}{8} = \frac{1}{8} + \frac{1}{8} + \frac{1}{8}$ • $\frac{3}{8} = \frac{1}{8} + \frac{2}{8}$ • $2\frac{1}{8} = 1 + 1 + \frac{1}{8} = \frac{8}{8} + \frac{8}{8} + \frac{1}{8}$	
	c. Add and subtract mixed numbers with like	NY-4.NF.3c Add and subtract mixed numbers with like denominators.	
	denominators, e.g., by replacing each mixed number with an equivalent fraction, and/or by using properties of operations and the relationship between addition and subtraction.	e.g., replacing each mixed number with an equivalent fraction, and/or by using properties of operations and the relationship between addition and subtraction.	
	d. Solve word problems involving addition and subtraction of fractions referring to the same whole and having like denominators, e.g., by using visual fraction models and equations to represent the problem.	<b>NY-4.NF.3d</b> Solve word problems involving addition and subtraction of fractions referring to the same whole and having like denominators.	
	Note: Grade 4 expectations are limited to fractions with denominators 2, 3, 4, 5, 6, 8, 10, 12, and 100.		

New York State Next Generation Mathematics Learning Standards

New York State Next Generation Mathematics Learning Standards		
Grade 4 Crosswalk		
Number and Operations - Fractions		
Cluster	NYS P-12 CCLS	NYS Next Generation Learning Standard
Understand decimal notation for fractions,	<b>4.NF.5</b> Express a fraction with denominator 10 as an equivalent fraction with denominator 100, and use this	
and compare decimal	technique to add two fractions with respective	
fractions.	denominators 10 and 100. For example, express $3/10$ as $30/100$ , and add $3/10 + 4/100 = 34/100$ .	

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New York State Next Generation Mathematics Learning Standards			
Grade 4 Crosswalk			
Measurement and Data			
Cluster Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.	4.MD.1	NYS Next Generation Learning Standard	

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New York State Next Generation Mathematics Learning Standards

New York State Next Generation Mathematics Learning Standards		
Grade 4 Crosswalk		
Geometry		
Cluster	NYS P-12 CCLS	NYS Next Generation Learning Standard
Draw and identify lines	4.G.1 Draw points, lines, line segments, rays, angles (right, acute,	
and angles, and classify	obtuse), and perpendicular and parallel lines. Identify these in two-	
shapes by properties of	dimensi 1 fi gur cs-25.5(.)]TJ ET Q q 186.96 447.84 284.161 34.	
their lines and angles.		