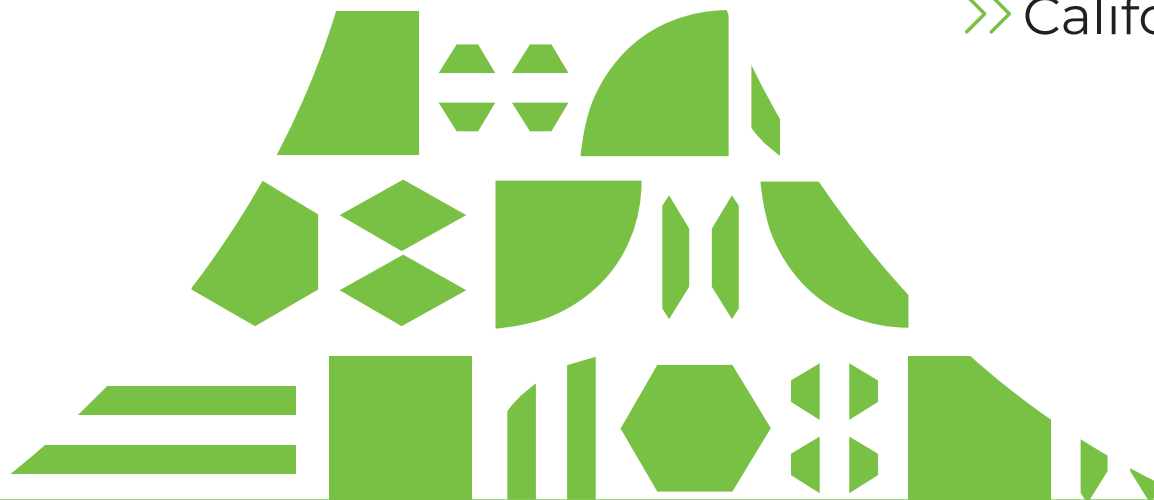




Bridges & Number Corner Third Edition >>

# CORRELATIONS

>> California Common Core State Standards Mathematics



### 3 Mathematics Process Standards

Standard	Descriptor	Citations
<b>PS Mathematics Process Standards</b>		
<b>PS.1</b>	Make sense of problems and persevere in solving them.	<p><b>Bridges in Mathematics</b></p> Unit 2: M1 S1; M1 S2 Unit 3: M2 S1; M3 S3 Unit 4: M2 S3 Unit 5: M1 S4; M2 S1 Unit 6: M3 S1 Unit 7: M4 S3 Unit 8: M1 S3; M4 S1
<b>PS.2</b>	Reason abstractly and quantitatively.	<p><b>Bridges in Mathematics</b></p> Unit 1: M2 S1; M4 S3; M4 S5 Unit 2: M2 S5 Unit 3: M1 S1 Unit 4: M1 S2 Unit 5: M4 S4 Unit 7: M4 S1 Unit 8: M3 S6; M4 S1; M3 S6
<b>PS.3</b>	Construct viable arguments and critique the reasoning of others.	<p><b>Bridges in Mathematics</b></p> Unit 1: M2 S4; M3 S3; M4 S2 Unit 2: M1 S1 Unit 3: M1 S6; M4 S2 Unit 4: M3 S3 Unit 5: M2 S4 Unit 6: M4 S3 Unit 8: M4 S1
<b>PS.4</b>	Model with mathematics.	<p><b>Bridges in Mathematics</b></p> Unit 1: M1 S1; M1 S2; M4 S5 Unit 2: M2 S2 Unit 4: M3 S4; M4 S3 Unit 5: M1 S3 Unit 6: M3 S2 Unit 7: M4 S2 Unit 8: M3 S3

Standard	Descriptor	Citations
<b>PS Mathematics Process Standards</b>		
<b>PS.5</b>	Use appropriate tools strategically.	<p><b>Bridges in Mathematics</b>            Unit 1: M2 S5; M3 S1            Unit 3: M1 S2; M2 S4            Unit 4: M2 S4            Unit 6: M1 S5            Unit 7: M2 S2            Unit 8: M1 S3; M4 S2</p> <p><b>Number Corner</b>            December: Calendar Collector            January: Calendar Collector            February: Calendar Collector            April: Calendar Collector, Number Line</p>
<b>PS.6</b>	Attend to precision.	<p><b>Bridges in Mathematics</b>            Unit 1: M3 S1            Unit 2: M4 S2            Unit 3: M3 S4            Unit 4: M1 S6; M4 S1            Unit 5: M3 S3; M4 S2            Unit 6: M1 S4            Unit 7: M2 S4; M4 S4            Unit 8: M1 S1; M1 S2; M4 S4</p> <p><b>Number Corner</b>            November: Calendar Collector, Computational Fluency            December: Computational Fluency            January: Number Line            February: Number Line            March: Number Line            May: Number Line</p>
<b>PS.7</b>	Look for and make use of structure.	<p><b>Bridges in Mathematics</b>            Unit 1: M1 S1; M1 S2; M2 S1; M2 S3; M3 S5            Unit 2: M2 S2; M3 S4            Unit 3: M2 S2            Unit 4: M1 S2            Unit 8: M1 S3; M3 S6; M4 S4</p> <p><b>Number Corner</b>            September: Calendar Grid, Number Line            October: Calendar Grid, Number Line            November: Calendar Grid, Number Line            December: Calendar Grid, Number Line            January: Calendar Grid, Number Line            February: Calendar Grid, Number Line            March: Calendar Grid, Number Line            April: Solving Problems            May: Computational Fluency</p>
<b>PS.8</b>	Look for and express regularity in repeated reasoning.	<p><b>Bridges in Mathematics</b>            Unit 1: M1 S4            Unit 2: M2 S4; M3 S2            Unit 3: M4 S1            Unit 4: M3 S2            Unit 5: M1 S2            Unit 6: M3 S3            Unit 7: M3 S4            Unit 8: M1 S1; M2 S5</p> <p><b>Number Corner</b>            November: Number Line            December: Solving Problems            January: Computational Fluency            February: Computational Fluency            March: Calendar Grid, Calendar Collector, Computational Fluency            April: Computational Fluency            May: Calendar Grid, Calendar Collector</p>

### 3 OA — Operations and Algebraic Thinking

Standard	Descriptor	Citations
Represent and solve problems involving multiplication and division.		
3.OA.1	Interpret products of whole numbers, e.g., interpret $5 \times 7$ as the total number of objects in 5 groups of 7 objects each. For example, describe a context in which a total number of objects can be expressed as $5 \times 7$ .	<p><b>Bridges in Mathematics</b>            Unit 2: M1 S1; M1 S2; M1 S3; M1 S4; M1 S5; M1 S6; M2 S1; M2 S3;            M2 S4; M2 S5; M3 S2; M3 S3; M3 S4; M4 S3            Unit 5: M1 S1; M1 S2; M1 S6; M3 S3            Unit 6: M3 S5            Unit 7: M1 S2</p> <p><b>Number Corner</b>            September: Calendar Grid, Computational Fluency            October: Computational Fluency            November: Computational Fluency</p>
3.OA.2	Interpret whole-number quotients of whole numbers, e.g., interpret $56 \div 8$ as the number of objects in each share when 56 objects are partitioned equally into 8 shares, or as a number of shares when 56 objects are partitioned into equal shares of 8 objects each. For example, describe a context in which a number of shares or a number of groups can be expressed as $56 \div 8$ .	<p><b>Bridges in Mathematics</b>            Unit 5: M1 S2; M1 S3; M1 S4; M1 S5; M1 S6; M2 S1; M2 S2; M3 S3            Unit 6: M3 S5</p> <p><b>Number Corner</b>            May: Solving Problems</p>

Standard	Descriptor	Citations
Represent and solve problems involving multiplication and division.		
3.OA.3	Use multiplication and division within 100 to solve word problems in situations involving equal groups, arrays, and measurement quantities, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem.	<p><b>Bridges in Mathematics</b>  Unit 2: M1 S1; M1 S2; M1 S3; M1 S4; M1 S5; M1 S6; M3 S1; M3 S2  Unit 5: M1 S3; M1 S4; M2 S1; M2 S2  Unit 7: M2 S1; M2 S2</p> <p><b>Number Corner</b>  September: Calendar Grid  November: Solving Problems</p>
3.OA.4	Determine the unknown whole number in a multiplication or division equation relating three whole numbers. <i>For example, determine the unknown number that makes the equation true in each of the equations</i> $8 \times ? = 48$ , $5 = \_ \div 3$ , $6 \times 6 = ?$ .	<p><b>Bridges in Mathematics</b>  Unit 5: M2 S1; M2 S3; M3 S1</p> <p><b>Number Corner</b>  November: Solving Problems  April: Solving Problems  May: Solving Problems</p>

Standard	Descriptor	Citations
Understand properties of multiplication and the relationship between multiplication and division.		
3.OA.5	<p>Apply properties of operations as strategies to multiply and divide. Examples: If <math>6 \times 4 = 24</math> is known, then <math>4 \times 6 = 24</math> is also known. (Commutative property of multiplication.) <math>3 \times 5 \times 2</math> can be found by <math>3 \times 5 = 15</math>, then <math>15 \times 2 = 30</math>, or by <math>5 \times 2 = 10</math>, then <math>3 \times 10 = 30</math>. (Associative property of multiplication.) Knowing that <math>8 \times 5 = 40</math> and <math>8 \times 2 = 16</math>, one can find <math>8 \times 7</math> as <math>8 \times (5 + 2) = (8 \times 5) + (8 \times 2) = 40 + 16 = 56</math>. (Distributive property.)</p>	<p><b>Bridges in Mathematics</b> Unit 7: M1 S3; M1 S4; M2 S1; M2 S2; M2 S3; M2 S4; M2 S5</p> <p><b>Number Corner</b> November: Computational Fluency December: Solving Problems April: Computational Fluency, Solving Problems May: Computational Fluency</p>
3.OA.6	<p>Understand division as an unknown-factor problem. For example, find <math>32 \div 8</math> by finding the number that makes 32 when multiplied by 8.</p>	<p><b>Bridges in Mathematics</b> Unit 5: M1 S5; M1 S6; M2 S1; M2 S2; M3 S4</p> <p><b>Number Corner</b> February: Computational Fluency April: Computational Fluency, Solving Problems May: Computational Fluency</p>
Multiply and divide within 100.		
3.OA.7	<p>Fluently multiply and divide within 100, using strategies such as the relationship between multiplication and division (e.g., knowing that <math>8 \times 5 = 40</math>, one knows <math>40 \div 5 = 8</math>) or properties of operations. By the end of Grade 3, know from memory all products of two one-digit numbers.</p>	<p><b>Bridges in Mathematics</b> Unit 2: M2 S3; M2 S4; M2 S5; M3 S3; M3 S4; M4 S2; M4 S3 Unit 5: M2 S4; M3 S1; M3 S2; M3 S3; M3 S4 Unit 7: M1 S2; M1 S3; M1 S4; M2 S2; M2 S5</p> <p><b>Number Corner</b> February: Computational Fluency March: Computational Fluency April: Computational Fluency, Solving Problems May: Calendar Collector, Computational Fluency, Solving Problems</p>

Standard	Descriptor	Citations
Solve problems involving the four operations, and identify and explain patterns in arithmetic.		
3.OA.8	Solve two-step word problems using the four operations. Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding.	<p><b>Bridges in Mathematics</b>            Unit 1: M4 S1; M4 S2            Unit 2: M4 S2; M4 S3            Unit 3: M1 S5; M1 S6; M3 S4; M4 S1; M4 S3            Unit 4: M2 S2; M2 S3            Unit 7: M1 S1; M1 S2; M2 S1            Unit 8: M4 S2</p> <p><b>Number Corner</b>            October: Number Line            January: Solving Problems</p>
3.OA.9	Identify arithmetic patterns (including patterns in the addition table or multiplication table), and explain them using properties of operations. For example, observe that 4 times a number is always even, and explain why 4 times a number can be decomposed into two equal addends.	<p><b>Bridges in Mathematics</b>            Unit 1: M1 S3; M1 S4; M1 S5; M2 S2; M3 S3; M3 S4            Unit 2: M2 S2; M3 S3; M3 S4            Unit 7: M1 S5            Unit 8: M2 S1</p> <p><b>Number Corner</b>            September: Number Line            December: Computational Fluency            January: Computational Fluency            February: Computational Fluency            March: Computational Fluency            April: Computational Fluency            May: Calendar Collector</p>

### 3 NBT — Number and Operations in Base Ten

Standard	Descriptor	Citations
Understand place value understanding and properties of operations to perform multidigit arithmetic.		
3.NBT.1	Use place value understanding to round whole numbers to the nearest 10 or 100.	<p><b>Bridges in Mathematics</b> Unit 3: M1 S2; M1 S3; M1 S4; M3 S1; M3 S2; M3 S3; M3 S4</p> <p><b>Number Corner</b> November: Number Line December: Number Line</p>
3.NBT.2	Fluently add and subtract within 1000 using strategies and algorithms based on place value, properties of operations, and/or the relationship between addition and subtraction.	<p><b>Bridges in Mathematics</b> Unit 1: M3 S2; M3 S3; M4 S2; M4 S4 Unit 3: M1 S1; M1 S3; M1 S5; M2 S1; M2 S2; M2 S3; M2 S4; M2 S5; M3 S1; M3 S2; M3 S3; M4 S1; M4 S2; M4 S3; M4 S4 Unit 4: M2 S1; M2 S2 Unit 8: M3 S6</p> <p><b>Number Corner</b> September: Solving Problems October: Solving Problems</p>
3.NBT.3	Multiply one-digit whole numbers by multiples of 10 in the range 10–90 (e.g., $9 \times 80$ , $5 \times 60$ ) using strategies based on place value and properties of operations.	<p><b>Bridges in Mathematics</b> Unit 7: M1 S1; M1 S5; M2 S1; M2 S3; M2 S4; M2 S5</p>



### 3 NF — Number and Operations: Fractions

Standard	Descriptor	Citations
Develop understanding of fractions as numbers.		
3.NF.1	Understand a fraction $\frac{1}{b}$ as the quantity formed by 1 part when a whole is partitioned into $b$ equal parts, understand a fraction $\frac{a}{b}$ as the quantity formed by $a$ parts of size $\frac{1}{b}$ .	<p><b>Bridges in Mathematics</b>            Unit 4: M3 S1; M3 S2; M3 S3; M3 S4; M4 S2            Unit 6: M4 S2; M4 S3            Unit 7: M3 S1; M3 S2; M3 S3; M3 S4; M3 S5; M3 S6; M4 S1; M4 S3            Unit 8: M2 S1</p> <p><b>Number Corner</b>            October: Calendar Collector            November: Calendar Collector            December: Calendar Grid            February: Calendar Collector            April: Calendar Collector</p>
<b>3.NF.2</b> Understand a fraction as a number on the number line, represent fractions on a number line diagram.		
3.NF.2.a	Represent a fraction $\frac{1}{b}$ on a number line diagram by defining the interval from 0 to 1 as the whole and partitioning it into $b$ equal parts. Recognize that each part has size $\frac{1}{b}$ and that the endpoint of the part based at 0 locates the number $\frac{1}{b}$ on the number line.	<p><b>Bridges in Mathematics</b>            Unit 4: M3 S4; M4 S1; M4 S2            Unit 7: M3 S1; M3 S2; M3 S3; M3 S4; M3 S5; M4 S1</p> <p><b>Number Corner</b>            January: Number Line            February: Number Line            March: Number Line            April: Calendar Grid, Number Line            May: Number Line</p>
3.NF.2.b	Represent a fraction $\frac{a}{b}$ on a number line diagram by marking off $a$ lengths $\frac{1}{b}$ from 0. Recognize that the resulting interval has size $\frac{a}{b}$ and that its endpoint locates the number $\frac{a}{b}$ on the number line.	<p><b>Bridges in Mathematics</b>            Unit 4: M3 S5            Unit 7: M3 S1; M3 S2; M3 S3; M3 S4; M3 S5; M4 S1</p> <p><b>Number Corner</b>            November: Calendar Collector            January: Number Line            February: Number Line            March: Number Line            May: Number Line</p>

Standard	Descriptor	Citations
Develop understanding of fractions as numbers.		
<b>3.NF.3</b> Explain equivalence of fractions in special cases, and compare fractions by reasoning about their size.		
<b>3.NF.3.a</b>	Understand two fractions as equivalent (equal) if they are the same size, or the same point on a number line.	<b>Bridges in Mathematics</b> Unit 7: M3 S1; M3 S2; M3 S3; M3 S5; M4 S1  <b>Number Corner</b> December: Calendar Grid January: Calendar Grid, Number Line April: Calendar Grid May: Number Line
<b>3.NF.3.b</b>	Recognize and generate simple equivalent fractions, e.g., $1/2 = 2/4$ , $4/6 = 2/3$ . Explain why the fractions are equivalent, e.g., by using a visual fraction model.	<b>Bridges in Mathematics</b> Unit 6: M4 S2; M4 S3 Unit 7: M3 S1; M3 S5; M3 S6; M4 S1; M4 S3  <b>Number Corner</b> December: Calendar Grid January: Calendar Grid April: Calendar Grid, Calendar Collector May: Calendar Grid, Number Line
<b>3.NF.3.c</b>	Express whole numbers as fractions, and recognize fractions that are equivalent to whole numbers. <i>Examples: Express 3 in the form <math>3 = 3/1</math>; recognize that <math>6/1 = 6</math>; locate <math>4/4</math> and 1 at the same point of a number line diagram.</i>	<b>Bridges in Mathematics</b> Unit 4: M3 S3  <b>Number Corner</b> December: Calendar Grid February: Number Line March: Number Line April: Calendar Collector May: Calendar Grid, Number Line
<b>3.NF.3.d</b>	Compare two fractions with the same numerator or the same denominator by reasoning about their size. Recognize that comparisons are valid only when the two fractions refer to the same whole. Record the results of comparisons with the symbols $>$ , $=$ , or $<$ , and justify the conclusions, e.g., by using a visual fraction model.	<b>Bridges in Mathematics</b> Unit 4: M3 S2; M3 S5 Unit 6: M4 S2 Unit 7: M3 S1  <b>Number Corner</b> January: Calendar Grid February: Number Line March: Number Line

### 3 MD — Measurement and Data

Standard	Descriptor	Citations
Solve problems involving measurement and estimation of intervals of time, liquid volumes, and masses of objects.		
3.MD.1	Tell and write time to the nearest minute and measure time intervals in minutes. Solve word problems involving addition and subtraction of time intervals in minutes, e.g., by representing the problem on a number line diagram.	<p><b>Bridges in Mathematics</b>            Unit 4: M2 S4; M2 S5            Unit 7: M3 S1            Unit 8: M2 S1; M3 S1; M3 S2; M4 S2</p> <p><b>Number Corner</b>            January: Calendar Collector            March: Calendar Grid</p>
3.MD.2	Measure and estimate liquid volumes and masses of objects using standard units of grams (g), kilograms (kg), and liters (l). Add, subtract, multiply, or divide to solve one-step word problems involving masses or volumes that are given in the same units, e.g., by using drawings (such as a beaker with a measurement scale) to represent the problem.	<p><b>Bridges in Mathematics</b>            Unit 4: M1 S3; M1 S4; M1 S5; M1 S6; M2 S1; M2 S2; M2 S3            Unit 8: M1 S2; M1 S4; M1 S5; M3 S2; M3 S3; M3 S4</p> <p><b>Number Corner</b>            October: Calendar Collector            December: Calendar Collector</p>

Standard	Descriptor	Citations
Represent and interpret data.		
3.MD.3	<p>Draw a scaled picture graph and a scaled bar graph to represent a data set with several categories. Solve one- and two-step “how many more” and “how many less” problems using information presented in scaled bar graphs. <i>For example, draw a bar graph in which each square in the bar graph might represent 5 pets.</i></p>	<p><b>Bridges in Mathematics</b>            Unit 2: M3 S5; M4 S1; M4 S2            Unit 8: M1 S5; M2 S4; M3 S3</p> <p><b>Number Corner</b>            September: Calendar Collector            February: Solving Problems            March: Calendar Grid            May: Calendar Collector</p>
3.MD.4	<p>Generate measurement data by measuring lengths using rulers marked with halves and fourths of an inch. Show the data by making a line plot, where the horizontal scale is marked off in appropriate units—whole numbers, halves, or quarters.</p>	<p><b>Bridges in Mathematics</b>            Unit 4: M4 S1; M4 S2; M4 S3            Unit 8: M1 S4; M2 S3; M3 S5</p>
Geometric measurement: understand concepts of area and relate area to multiplication and to addition.		
3.MD.5 Recognize area as an attribute of plane figures and understand concepts of area measurement.		
3.MD.5.a	<p>A square with side length 1 unit, called “a unit square,” is said to have “one square unit” of area, and can be used to measure area.</p>	<p><b>Bridges in Mathematics</b>            Unit 5: M4 S1            Unit 6: M4 S1</p> <p><b>Number Corner</b>            February: Calendar Grid</p>

Standard	Descriptor	Citations	
Geometric measurement: understand concepts of area and relate area to multiplication and to addition.			
<b>3.MD.5</b> Recognize area as an attribute of plane figures and understand concepts of area measurement.			
<b>3.MD.5.b</b>	A plane figure which can be covered without gaps or overlaps by $n$ unit squares is said to have an area of $n$ square units.	<b>Bridges in Mathematics</b> Unit 5: M4 S1; M4 S2; M4 S3	
<b>3.MD.6</b>	Measure areas by counting unit squares (square cm, square m, square in, square ft, and improvised units).	<b>Bridges in Mathematics</b> Unit 5: M4 S1; M4 S2; M4 S3; M4 S4 Unit 6: M3 S5 Unit 8: M1 S2	<b>Number Corner</b> February: Calendar Grid March: Calendar Collector
<b>3.MD.7</b> Relate area to the operations of multiplication and addition.			
<b>3.MD.7.a</b>	Find the area of a rectangle with whole-number side lengths by tiling it, and show that the area is the same as would be found by multiplying the side lengths.	<b>Bridges in Mathematics</b> Unit 5: M4 S1; M4 S4 Unit 6: M3 S1; M3 S5 Unit 7: M2 S2; M2 S5	<b>Number Corner</b> November: Calendar Grid February: Calendar Grid May: Calendar Grid
<b>3.MD.7.b</b>	Multiply side lengths to find areas of rectangles with whole-number side lengths in the context of solving real-world and mathematical problems, and represent whole-number products as rectangular areas in mathematical reasoning.	<b>Bridges in Mathematics</b> Unit 5: M3 S3; M4 S4; M4 S5 Unit 6: M3 S1; M3 S3; M3 S4 Unit 7: M1 S5; M2 S2; M2 S4 Unit 8: M1 S2; M1 S4; M4 S3	

Standard	Descriptor	Citations	
Geometric measurement: understand concepts of area and relate area to multiplication and to addition.			
<b>3.MD.7</b> Relate area to the operations of multiplication and addition.			
<b>3.MD.7.c</b>	Use tiling to show in a concrete case that the area of a rectangle with whole-number side lengths $a$ and $b + c$ is the sum of $a \times b$ and $a \times c$ . Use area models to represent the distributive property in mathematical reasoning.	<b>Bridges in Mathematics</b> Unit 5: M4 S5 Unit 7: M2 S1; M2 S2; M2 S3; M2 S4; M2 S5	
<b>3.MD.7.d</b>	Recognize area as additive. Find areas of rectilinear figures by decomposing them into non-overlapping rectangles and adding the areas of the non-overlapping parts, applying this technique to solve real-world problems.	<b>Bridges in Mathematics</b> Unit 5: M4 S5 Unit 6: M3 S4 Unit 8: M4 S3	<b>Number Corner</b> March: Calendar Collector, Solving Problems May: Calendar Grid
Geometric measurement: recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.			
<b>3.MD.8</b>	Solve real-world and mathematical problems involving perimeters of polygons, including finding the perimeter given the side lengths, finding an unknown side length, and exhibiting rectangles with the same perimeter and different areas or with the same area and different perimeters.	<b>Bridges in Mathematics</b> Unit 6: M3 S1; M3 S2; M3 S3; M3 S4; M3 S5 Unit 8: M2 S1; M4 S3  <b>Number Corner</b> February: Calendar Grid March: Calendar Collector, Solving Problems	

### 3 G — Geometry

Standard	Descriptor	Citations
Reason with shapes and their attributes.		
3.G.1	<p>Understand that shapes in different categories (e.g., rhombuses, rectangles, and others) may share attributes (e.g., having four sides), and that the shared attributes can define a larger category (e.g., quadrilaterals). Recognize rhombuses, rectangles, and squares as examples of quadrilaterals, and draw examples of quadrilaterals that do not belong to any of these subcategories.</p>	<p><b>Bridges in Mathematics</b>            Unit 6: M1 S1; M1 S2; M1 S3; M1 S4; M1 S5; M2 S1; M2 S2; M2 S3;            M2 S4; M2 S5; M2 S6            Unit 8: M2 S2; M2 S5; M4 S3</p> <p><b>Number Corner</b>            October: Calendar Grid</p>
3.G.2	<p>Partition shapes into parts with equal areas. Express the area of each part as a unit fraction of the whole. For example, partition a shape into 4 parts with equal area, and describe the area of each part as <math>\frac{1}{4}</math> of the area of the shape.</p>	<p><b>Bridges in Mathematics</b>            Unit 4: M3 S1; M3 S2; M3 S3            Unit 6: M4 S1; M4 S3            Unit 7: M4 S2; M4 S3            Unit 8: M2 S1</p> <p><b>Number Corner</b>            May: Calendar Grid</p>