**Claim 1:** Concepts and Procedures



#### Students can explain and apply mathematical concepts and carry out mathematical procedures with precision and fluency. Content Domain: **Geometry Target K [a]:** Reason with shapes and their attributes. (DOK 1, 2) These tasks should support Grade 3 fraction and area work. Technology-enhanced tasks could involve partitioning a shape into parts with equal areas; more traditional tasks could involve expressing the area of each part as a unit fraction of the whole. For these tasks, shapes may be partitioned into non-rectangular parts; for example, students will use intuitive ideas about area to reason that a square with both diagonals drawn has been partitioned into four equal parts. Other tasks for this target will connect less directly to other material in the grade, continuing the standards' progression of increasingly sophisticated spatial and logical reasoning about shapes and their attributes (cf. 2.G.1). Most of these tasks will assess understanding of the hierarchy of quadrilaterals as detailed in 3.G.A.1. A few tasks may involve categories of shapes not explicitly mentioned in the standard, so as to assess understanding of property-based categorization per se at this level. For example, a regular octagon and a rectangle might be shown and the student asked to select a category to which both figures belong—e.g., figures that can be partitioned into triangles—and then to produce a figure not belonging to that category (e.g., a circle). Standards: **3.G.A Reason with shapes and their attributes.** 3.G.A, 3.G.A.1, 3.G.A.2 **3.G.A.1** 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., guadrilaterals). Recognize rhombuses, rectangles, and squares as examples of quadrilaterals, and draw examples of guadrilaterals that do not belong to any of these subcategories. **3.G.A.2** 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 1/4 of the area of the shape. Related Below-Grade **Related Grade 2 Standards** and Above-Grade 2.G.A Reason with shapes and their attributes. Standards for Purposes of Planning for Vertical 2.G.A.1 Recognize and draw shapes having specified attributes, such as a given number of angles or a given number of equal Scaling: 2.G.A, 2.G.A.1, 2.G.A.3, faces. Identify triangles, guadrilaterals, pentagons, hexagons, 4.G.A, 4.G.A.1, 4.G.A.2, and cubes. 4.G.A.3 2.G.A.3 Partition circles and rectangles into two, three, or four equal shares, describe the shares using the words halves, thirds, half of, a third of, etc., and describe the whole as two halves, three thirds, four fourths. Recognize that equal shares of identical wholes need not have the same shape.



	Related Grade 4 Standards 4.G.A Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
	4.G.A.1 Draw points, lines, line segments, rays, angles (right, acute, obtuse), and perpendicular and parallel lines. Identify these in two-dimensional figures.
	4.G.A.2 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. Recognize right triangles as a category, and identify right triangles.
	4.G.A.3 Recognize a line of symmetry for a two-dimensional figure as a line across the figure such that the figure can be folded along the line into matching parts. Identify line-symmetric figures and draw lines of symmetry.
DOK Levels:	1, 2
RANGE Achievement	Level 1 Students should be able to recognize rhombuses,
Level Descriptor	rectangles, and squares.
(Range ALD)	Level 2 Students should be able to reason with the attributes of
Target K: Reason with	quadrilaterals to recognize rhombuses, rectangles, and squares
shapes and their	as examples of quadrilaterals and reason with shapes to partition
attributes.	them into parts with equal areas.
	<b>Level 3</b> Students should be able to draw examples of quadrilaterals that do not belong to given subcategories by reasoning about their attributes; partition shapes into parts with equal areas and express the area of each part as a unit fraction of the whole; and understand that shapes in different categories may share attributes and that the shared attributes can define a larger category.
	Level 4 No Descriptor
Evidence Required:	<ol> <li>The student identifies, draws, and classifies shapes (e.g., rhombuses, rectangles, and others) according to their attributes (e.g., having four sides), and recognizes that shared attributes can define a classification category.</li> </ol>
	<ol><li>The student partitions shapes into parts with equal areas and can express the area of each part as a unit fraction of the whole.</li></ol>
Allowable Response	Matching Table; Hot Spot; Drag and Drop; Graphing;
Types:	Equation/Numeric
Allowable Stimulus Materials:	visual models of quadrilaterals and other shapes
Construct-Relevant	divide, equal areas, rhombus, rectangle, square, circle, triangle,
Vocabulary:	pentagon, hexagon, quadrilateral, parallelogram
Allowable Tools:	None



Target-Specific Attributes:       Images of shapes may include two-dimensional shapes such as triangles, quadrilaterals, pentagons, hexagons, squares, rectangles, rhombuses, parallelograms, trapezoids, and circles.         Shapes may be partitioned into parts with equal areas in shapes such as rectangles, squares, and triangles.         Visual graphics may be difficult or not accessible for students who are blind or visually impaired. Reviewing tactile graphs may be time-consuming but not prohibitive. The simplest graphics should be used to minimize this issue.         Non-Targeted Constructs:       None         Accessibility Guidance:       Item writers should consider the following Language and Visual Element/Design guidelines <sup>1</sup> when developing items.         Language Key Considerations:       • Use simple, clear, and easy-to-understand language needed to assess the construct or aid in the understanding of the context         • Avoid sentences with multiple clauses       • Use vocabulary that is at or below grade level         • Avoid ambiguous or obscure words, idioms, jargon, unusual names and references       • Include visual elements only if the graphic is needed to assess the construct or it aids in the understanding of the context         • Use the simplest graphic possible with the greatest degree of contrast, and include clear, concise labels where necessary         • Avoid crowding of details and graphics         Items are selected for a student's test according to the blueprint, which selects items based on Claims and targets, not task models.         • As such, careful consideration is given to making sure fully accessible items are		
such as rectangles, squares, and triangles.         Visual graphics may be difficult or not accessible for students who are blind or visually impaired. Reviewing tactile graphs may be time-consuming but not prohibitive. The simplest graphics should be used to minimize this issue.         Non-Targeted Constructs:       None         Accessibility Guidance:       Item writers should consider the following Language and Visual Element/Design guidelines <sup>1</sup> when developing items.         Language Key Considerations:       Use simple, clear, and easy-to-understand language needed to assess the construct or aid in the understanding of the context         Avoid sentences with multiple clauses       Use vocabulary that is at or below grade level         Avoid ambiguous or obscure words, idioms, jargon, unusual names and references       Visual Elements/Design Key Considerations:         Use to costruct or it aids in the understanding of the context       Use the simplest graphic possible with the greatest degree of contrast, and include clear, concise labels where necessary         Use the simplest graphic possible with the greatest degree of contrast, and include clear, concise labels where necessary         Avoid crowding of details and graphics         Items are selected for a student's test according to the blueprint, which selects items based on Claims and targets, not task models.         As such, careful consideration is given to making sure fully accessible items are available to cover the content of every Claim and target, even if some item formats are not fully accessible		triangles, quadrilaterals, pentagons, hexagons, squares,
who are blind or visually impaired. Reviewing tactile graphs may be time-consuming but not prohibitive. The simplest graphics should be used to minimize this issue.         Non-Targeted Constructs:       None         Accessibility Guidance:       Item writers should consider the following Language and Visual Element/Design guidelines <sup>1</sup> when developing items.         Language Key Considerations: <ul> <li>Use simple, clear, and easy-to-understand language needed to assess the construct or aid in the understanding of the context</li> <li>Avoid sentences with multiple clauses</li> <li>Use vocabulary that is at or below grade level</li> <li>Avoid ambiguous or obscure words, idioms, jargon, unusual names and references</li> <li>Visual Elements/Design Key Considerations:</li> <li>Include visual elements only if the graphic is needed to assess the construct or it aids in the understanding of the context</li> <li>Use the simplest graphic possible with the greatest degree of contrast, and include clear, concise labels where necessary</li> <li>Avoid crowding of details and graphics</li> <li>Items are selected for a student's test according to the blueprint, which selects items based on Claims and targets, not task models.</li> <li>As such, careful consideration is given to making sure fully accessible items are available to cover the content of every Claim and target, even if some item formats are not fully accessible</li> </ul>		
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Constructs:         Accessibility Guidance:         Item writers should consider the following Language and Visual Element/Design guidelines <sup>1</sup> when developing items.         Language Key Considerations:         • Use simple, clear, and easy-to-understand language needed to assess the construct or aid in the understanding of the context         • Avoid sentences with multiple clauses         • Use vocabulary that is at or below grade level         • Avoid ambiguous or obscure words, idioms, jargon, unusual names and references         Visual Elements/Design Key Considerations:         • Include visual elements only if the graphic is needed to assess the construct or it aids in the understanding of the context         • Use the simplest graphic possible with the greatest degree of contrast, and include clear, concise labels where necessary         • Avoid crowding of details and graphics         Items are selected for a student's test according to the blueprint, which selects items based on Claims and targets, not task models.         As such, careful consideration is given to making sure fully accessible items are available to cover the content of every Claim and target, even if some item formats are not fully accessible	Non Targeted	
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<ul> <li>Use simple, clear, and easy-to-understand language needed to assess the construct or aid in the understanding of the context</li> <li>Avoid sentences with multiple clauses</li> <li>Use vocabulary that is at or below grade level</li> <li>Avoid ambiguous or obscure words, idioms, jargon, unusual names and references</li> <li>Visual Elements/Design Key Considerations:         <ul> <li>Include visual elements only if the graphic is needed to assess the construct or it aids in the understanding of the context</li> <li>Use the simplest graphic possible with the greatest degree of contrast, and include clear, concise labels where necessary</li> <li>Avoid crowding of details and graphics</li> </ul> </li> <li>Items are selected for a student's test according to the blueprint, which selects items based on Claims and targets, not task models.</li> <li>As such, careful consideration is given to making sure fully accessible items are available to cover the content of every Claim and target, even if some item formats are not fully accessible</li> </ul>		
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which selects items based on Claims and targets, not task models. As such, careful consideration is given to making sure fully accessible items are available to cover the content of every Claim and target, even if some item formats are not fully accessible		<ul> <li>Include visual elements only if the graphic is needed to assess the construct or it aids in the understanding of the context</li> <li>Use the simplest graphic possible with the greatest degree of contrast, and include clear, concise labels where necessary</li> </ul>
accessible items are available to cover the content of every Claim and target, even if some item formats are not fully accessible		which selects items based on Claims and targets, not task models.
		accessible items are available to cover the content of every Claim
Development Notes: None	Development Notes:	

<sup>&</sup>lt;sup>1</sup> For more information, refer to the General Accessibility Guidelines at:

http://www.smarterbalanced.org/wordpress/wp-content/uploads/2012/05/TaskItemSpecifications/Guidelines/AccessibilityandAccommodations/GeneralAccessibilityGuidelines.pdf <sup>2</sup> For more information about student accessibility resources and policies, refer to http://www.smarterbalanced.org/wordpress/wp-content/uploads/2014/08/SmarterBalanced\_Guidelines.pdf



Task Model 1a that displays the given attributes. **Response Type: Matching Tables** Stimulus Guidelines: DOK Level 1 methods: shapes that are not quadrilaterals. TM1a which may include: • the attributes of the shape (e.g., 4 sides) • Click Yes or No for each shape. Yes No **Evidence Required:** 1. The student

identifies each shape as

**Response Type:** Matching Tables

# 3.G.A.1

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.

identifies, draws, and classifies shapes (e.g., rhombuses, rectangles, and others) according to their attributes (e.g., having four sides) and recognizes that shared attributes can define a classification category.

Tools: None

**Prompt Features:** The student is prompted to select a shape

- Item difficulty can be adjusted via these example
  - Recognizes rhombuses, rectangles, and squares.
  - Recognizes shapes that are quadrilaterals and
  - Recognizes shapes based on their attributes.

**Stimulus:** The student is presented with a description of a shape

the name of the shape (e.g., quadrilateral, parallelogram)

**Example Stem:** Decide whether each shape is a quadrilateral.

<b>Rubric:</b> (1 pc Yes or No (e.g	int) The stude ., N, Y, Y).	nt correctly



Task Model 1b	<b>Prompt Features:</b> The student is prompted to classify shapes by a given category or category and sub-category.
Response Type: Hot Spot	<ul> <li>Stimulus Guidelines:</li> <li>Item difficulty can be adjusted via these example</li> </ul>
DOK Level 1	<ul> <li>methods:</li> <li>Shapes are classified into one category.</li> </ul>
<b>3.G.A.1</b> Understand that shapes in different categories (e.g., rhombuses, rectangles, and others) may share attributes (e.g., having four sides), and that the	<ul> <li>Shapes are classified into one category.</li> <li>Shapes are classified by a category and one of its sub-categories.</li> <li>TM1b</li> <li>Stimulus: The student is presented with a collection of shapes.</li> </ul>
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.	Example Stem: Click all of the shapes that appear to be parallelograms.
<b>Evidence Required:</b> 1. The student identifies, draws, and classifies shapes (e.g., rhombuses, rectangles, and others) according to their attributes (e.g., having four sides) and recognizes that shared attributes can define a classification category.	Rubric: (1 point) The student correctly selects all of the parallelograms (e.g., see image below).
Tools: None	
Accessibility Note: Hot Spot items are not currently able to be Brailled. Minimize the number of items developed to this TM.	



Grade 3 Mathematics Item Specification C1 TK Assessment Consortium					
Task Model 1c Response Type: Drag and Drop	given cated	eatures: The studen gories, sub-categorie Guidelines:	es, or attributes.		·
DOK Level 1	sym	pes will be presente bols will be used. n difficulty can be ac	-	-	gle
<b>3.G.A.1</b> 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	met TM1c Stimulus: five shapes Example S they belong A figure ma	<ul> <li>Shapes are class category, or attrio</li> <li>Shapes are class category, sub-ca</li> <li>Shapes are class category, sub-ca</li> <li>Shapes are class category, sub-ca</li> </ul> The student is present the student is present. Stem: Drag the figure of the student is present. Stem: Drag the figure of the student is present. Stem: Drag the figure of the student is present. Stem: Drag the figure of the student is present. Stem: Drag the figure of the student is present. Stem: Drag the figure of the student is present.	ified by one cate bute. ified by any two tegory, or attribu ified by any thre tegory, or attribu ented with a colle res to each box o	gory, sub- of the followin ute. e of the follow ute. ection of four o or boxes where	ving: or e
quadrilaterals that do not belong to any of these subcategories.	these cate	jories.			
<b>Evidence Required:</b> 1. The student identifies, draws, and classifies shapes (e.g.,		Quadrilaterals	Rectangles	Has at Least 4 Angles	
rhombuses, rectangles, and others) according to their attributes (e.g., having four sides) and recognizes that shared attributes can define a classification category. <b>Tools:</b> None <b>Accessibility Note:</b> Drag and Drop items are not currently able to					
be Brailled. Minimize the number of items developed to this TM.	4				



# Task Model 1c

#### Response Type: Drag and Drop

# DOK Level 1

# 3.G.A.1

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.

# **Evidence Required:**

1. The student identifies, draws, and classifies shapes (e.g., rhombuses, rectangles, and others) according to their attributes (e.g., having four sides) and recognizes that shared attributes can define a classification category.

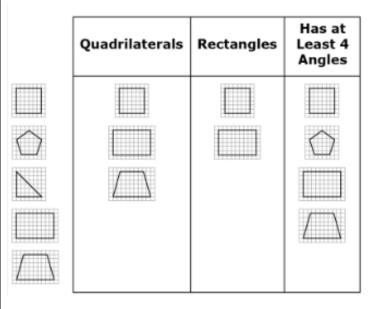
# Tools: None

# Accessibility Note:

Drag and Drop items are not currently able to be Brailled. Minimize the number of items developed to this TM.

### TM1c (continued)

**Rubric:** (1 point) The student correctly classifies each shape (e.g., see chart below).



# Response Type: Drag and Drop

Version 3.0



Grade 3 Mathematic	s Item Specification C1 TK Assessment Consortium
Task Model 1d Response Type:	<b>Prompt Features:</b> The student is prompted to draw a quadrilateral that may or may not belong to one of these subcategories; rhombus, rectangle, or square
Graphing	subcategories: rhombus, rectangle, or square.
	Stimulus Guidelines:
DOK Level 2	<ul> <li>Item difficulty can be adjusted via these example methods:</li> <li>Given a set of attributes, draw a quadrilateral that is</li> </ul>
3.G.A.1	a rhombus, rectangle, square.
Understand that shapes	<ul> <li>Given name(s) or set of attributes, draw a</li> <li>guadrilatoral that is <b>not</b> a rhombus, restangle, or</li> </ul>
in different categories (e.g., rhombuses,	quadrilateral that is <b>not</b> a rhombus, rectangle, or square.
rectangles, and others)	Square.
may share attributes	TM1d
(e.g., having four sides), and that the	Stimulus: The student is presented with a grid.
shared attributes can define a larger category (e.g., quadrilaterals).	<b>Example Stem 1:</b> Use the Connect Line tool to draw a quadrilateral where every side is the same length.
Recognize rhombuses, rectangles, and squares as examples of	<b>Example Stem 2:</b> Use the Connect Line tool to draw a quadrilateral where every side is a different length.
quadrilaterals, and draw examples of quadrilaterals that do	<b>Example Stem 3:</b> Use the Connect Line tool to draw a quadrilateral that is <b>not</b> a rhombus or a rectangle.
not belong to any of these subcategories.	<b>Rubric:</b> (1 point) The student correctly draws a quadrilateral that meets the given attributes (e.g., see quadrilaterals below)
<b>Evidence Required:</b> 1. The student identifies, draws, and classifies shapes (e.g., rhombuses, rectangles, and others) according to their attributes (e.g.,	
having four sides) and recognizes that shared attributes can define a classification category.	Response Type: Graphing
Tools: None	
Accessibility Note: Graphing items are not currently able to be Brailled. Minimize the	

number of items developed to this TM.



<ul> <li>Task Model 2a</li> <li>Prompt Features: The student is prompted to express the shaded area of a partitioned shape as a unit fraction.</li> <li>Stimulus Guidelines: <ul> <li>Stimulus Guidelines:</li> <li>Student enters a unit fraction equal to one part shaded.</li> </ul> </li> <li>TM2a</li> <li>Stimulus: The student is presented with a rectangle or circle that is divided into halves, thirds, fourths, sixths, or eighths, with one part shaded.</li> <li>TM2a</li> <li>Stimulus: The student is presented with a rectangle or circle that is divided into halves, thirds, fourths, sixths, or eighths, with one part shaded.</li> <li>Express the area of each part as 1/4 of the area of each part as 1/4 of the area of each part as 1/4 of the area of the shape.</li> <li>Evidence Required:</li> <li>The student partitions shapes into parts with equal areas and can</li> </ul>		
Response Type: Equation/NumericStimulus Guidelines: • Student enters a unit fraction equal to one part shaded.DOK Level 1TM2a3.G.A.2Stimulus: The student is presented with a rectangle or circle that is divided into halves, thirds, fourths, sixths, or eighths, with one part shaded.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 areas, and describe the area of each part as 1/4 of the area of the shape.Evidence Required: 2. The student partitions shapes into parts with equal areas and can	Task Model 2a	• • • •
Equation/NumericStimulus Guidelines: • Student enters a unit fraction equal to one part shaded.DOK Level 1TM2a3.G.A.2TM2aPartition 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 areas, and describe the area of each part as 1/4 of the area of the shape.TM2a Stimulus: The student is presented with a rectangle or circle that is divided into halves, thirds, fourths, sixths, or eighths, with one part shaded.Evidence Required: 2. The student partitions shapes into parts with equal areas and canImage: Comparison of the state of each part as 1/4 of the area of the shape.		shaded area of a partitioned shape as a unit fraction.
<ul> <li>Student enters a unit fraction equal to one part shaded.</li> <li>TM2a Stimulus: The student is presented with a rectangle or circle that is divided into halves, thirds, fourths, sixths, or eighths, with one part as a unit fraction of the whole. For example, partition a shape into 4 parts with equal areas, and describe the area of each part as 1/4 of the area of the shape.</li> <li>Evidence Required:</li> <li>The student partitions shapes into parts with equal areas and can</li> </ul>		
<ul> <li>DOK Level 1</li> <li>3.G.A.2</li> <li>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 areas, and describe the area of each part as 1/4 of the area of the shape.</li> <li>Evidence Required:</li> <li>2. The student partitions shapes into parts with equal areas and can</li> </ul>	Equation/Numeric	Stimulus Guidelines:
<ul> <li><b>3.G.A.2</b></li> <li>Partition shapes into parts with equal areas.</li> <li>Express the area of each part as a unit fraction of the whole. For example, partition a shape into 4 parts with equal areas, and describe the area of each part as 1/4 of the area of the shape.</li> <li><b>Evidence Required:</b></li> <li>2. The student partitions shapes into parts with equal areas and can</li> </ul>		<ul> <li>Student enters a unit fraction equal to one part shaded.</li> </ul>
<ul> <li>3.G.A.2</li> <li>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 areas, and describe the area of each part as 1/4 of the area of the shape.</li> <li>Evidence Required:</li> <li>2. The student partitions shapes into parts with equal areas and can</li> </ul>	DOK Level 1	
<ul> <li>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 areas, and describe the area of each part as 1/4 of the area of the shape.</li> <li>Evidence Required:</li> <li>2. The student partitions shapes into parts with equal areas and can</li> </ul>		TM2a
<ul> <li>parts with equal areas.</li> <li>Express the area of each part as a unit fraction of the whole. For example, partition a shape into 4 parts with equal areas, and describe the area of each part as 1/4 of the area of the shape.</li> <li>Evidence Required:</li> <li>2. The student partitions shapes into parts with equal areas and can</li> </ul>	3.G.A.2	Stimulus: The student is presented with a rectangle or circle
<ul> <li>Express the area of each part as a unit fraction of the whole. For example, partition a shape into 4 parts with equal areas, and describe the area of each part as 1/4 of the area of the shape.</li> <li>Evidence Required:</li> <li>2. The student partitions shapes into parts with equal areas and can</li> </ul>	Partition shapes into	that is divided into halves, thirds, fourths, sixths, or eighths, with
<ul> <li>part as a unit fraction of the whole. For example, partition a shape into 4 parts with equal areas, and describe the area of each part as 1/4 of the area of the shape.</li> <li>Evidence Required:</li> <li>2. The student partitions shapes into parts with equal areas and can</li> </ul>	parts with equal areas.	one part shaded.
<pre>the whole. For example, partition a shape into 4 parts with equal areas, and describe the area of each part as 1/4 of the area of the shape.  Evidence Required: 2. The student partitions shapes into parts with equal areas and can</pre>	Express the area of each	
partition a shape into 4 parts with equal areas, and describe the area of each part as 1/4 of the area of the shape.       Evidence Required:       2. The student partitions shapes into parts with equal areas and can	part as a unit fraction of	<b>Example Stem:</b> Figure A is divided into equal squares. One
parts with equal areas, and describe the area of each part as 1/4 of the area of the shape.          Evidence Required:         2. The student partitions shapes into parts with equal areas and can	the whole. For example,	square is shaded.
<ul> <li>and describe the area of each part as 1/4 of the area of the shape.</li> <li>Evidence Required:</li> <li>2. The student partitions shapes into parts with equal areas and can</li> </ul>	partition a shape into 4	
<ul> <li>each part as 1/4 of the area of the shape.</li> <li>Evidence Required:</li> <li>2. The student partitions shapes into parts with equal areas and can</li> </ul>	parts with equal areas,	
area of the shape. Evidence Required: 2. The student partitions shapes into parts with equal areas and can	and describe the area of	
Evidence Required: 2. The student partitions shapes into parts with equal areas and can	each part as 1/4 of the	
2. The student partitions shapes into parts with equal areas and can	area of the shape.	
2. The student partitions shapes into parts with equal areas and can		
shapes into parts with equal areas and can		
equal areas and can	2. The student partitions	
	• •	
	-	
	express the area of each	Enter a fraction that is equal to the shaded area of Figure A.
part as a unit fraction of	-	
the whole. <b>Rubric:</b> (1 point) The student enters the fraction equal to the	the whole.	<b>Rubric:</b> (1 point) The student enters the fraction equal to the
shaded portion of the shape (e.g., $\frac{1}{6}$ ).		shaded portion of the shape (e.g., $\frac{1}{c}$ ).
Tools: None	Tools: None	b
Response Type: Equation/Numeric		Response Type: Equation/Numeric



Task Model 2b	<b>Prompt Features:</b> The student is prompted to shade a fraction
Response Type:	of a rectangle by partitioning the shape into equal parts.
Hot Spot	Stimulus Guidelines:
DOK Level 2	<ul> <li>The size of the rectangle must be able to be partitioned into parts that have an equal size and shape.</li> <li>The rectangle can have side lengths in whole unit</li> </ul>
<b>3.G.A.2</b> Partition shapes into parts with equal areas. Express the area of each part as a unit fraction of the whole. <i>For example,</i> <i>partition a shape into 4</i> <i>parts with equal areas,</i> <i>and describe the area of</i> <i>each part as 1/4 of the</i> <i>area of the shape.</i>	<ul> <li>The rectangle call have side lengths in whole unit increments from 1 inch to 6 inches.</li> <li>A unit fraction is given that is equal to one part out of the total number of parts the rectangle can be partitioned into.</li> <li>Item difficulty can be adjusted via these example methods:         <ul> <li>Rulers presented along length and width of rectangle including whole units.</li> <li>Rulers presented along length and width of rectangle including whole and half units.</li> </ul> </li> <li>Hot Spots will be created for every square inch over the</li> </ul>
<b>Evidence Required:</b> 2. The student partitions shapes into parts with	entire area of the rectangle. TM2b Stimulus: The student is presented with a rectangle with rulers
equal areas and expresses the area of each part as a fraction of the whole.	along two adjacent sides. <b>Example Stem:</b> This rectangle can be divided into equal parts. Click to shade $\frac{1}{6}$ of the rectangle.
Tools: None	
Accessibility Note: Hot Spot items are not currently able to be Brailled. Minimize the number of items developed to this TM.	$ \begin{array}{c}                                     $
	<b>Rubric:</b> (1 point) The student clicks on the Hot Spots in the background to represent the unit fraction provided.
	(e.g., , , or any 3 squares shaded)
	Response Type: Hot Spot