Content Standard	***MAFS.3.G*** *Geometry* ***MAFS.3.G.1*** Reason with shapes and their attributes. **MAFS.3.G.1.2** 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* $\frac{1}{4}$ *of the area of the shape*.
Assessment Limits	Fractions with denominators 2, 3, 4, 6, and 8 (MAFS.3.NF). Shapes include quadrilateral (parallelogram, rhombus, rectangle, square, isosceles trapezoid), equilateral triangle, isosceles triangle, regular hexagon, circle (these are all the shapes covered in geometry standards K-3). The shape used and the number of partitions should be suitable for this grade. For example, having a student partition a hexagon into 6 parts is acceptable, but 8 is not.
Calculator	No
Acceptable Response Mechanisms	Equation Response Graphic Response – Drawing/Graphing, Hot Spot Multi-Select Response Table Response
Context	No context
Example	
Context	A shape is shown.
Context easier	Decrease number of partitions. Limit partitions to horizontal/vertical partitions. Limit partitions to $\frac{1}{2}$ and $\frac{1}{4}$.
Context more difficult	Increase number of partitions. Include irregular/nontraditional partitions. Partition includes $\frac{1}{3}$, $\frac{1}{6}$, and $\frac{1}{8}$.

Sample Item Stem	Response Mechanism	Notes, Comments
A square is shown. Part of the square is shaded.  Which fraction of the total area of the square does the shaded part represent?	Equation Response	

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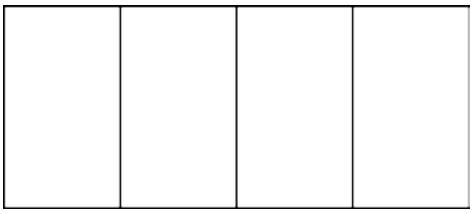
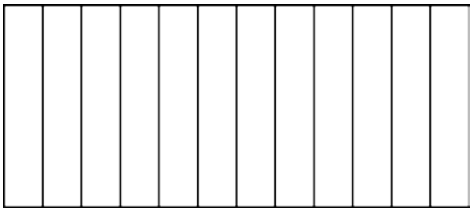
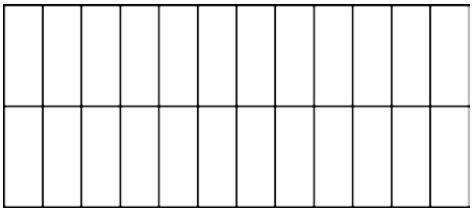
A rectangle is shown.  Shade $\frac{1}{2}$ of the shape.	Graphic Response – Hot Spot	
A rectangle is shown.  Shade $\frac{1}{3}$ of the shape.	Graphic Response – Hot Spot	
A rectangle is shown.  Shade $\frac{1}{8}$ of the shape.	Graphic Response – Hot Spot	

A half of a shape is shown.  Click squares to complete the whole shape.	Graphic Response – Hot Spot	
A third of a shape is shown.  Click squares to complete the whole shape.	Graphic Response – Hot Spot	
A sixth of a shape is shown.  Click squares to complete the whole shape.	Graphic Response – Hot Spot	