Content Standard		MAFS.3.NF Number and Operations — Fractions		
		MAFS.3.NF.1 Develop understanding of fractions as numbers.		
		3 9, 9		
		MAFS.3.NF.1.1 Understand a fraction $\frac{1}{h}$ 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 $\frac{1}{b}$.		
Assessment Limits		Denominators limited to 2, 3, 4, 6, and 8.		
		Combining or putting together unit fractions rather than formal addition or subtraction of fractions.		
		Maintain concept of a whole as one entity that can be equally partitioned in various ways when working with unit fractions.		
		Limit usage of the words "numerator" and "denominator" in items—focus should		
		not be on assessing vocabulary terms.		
		Fractions a/b can be improper fractions and students should not be guided to put		
		fractions in lowest terms or to simplify.		
		Items may not use number lines (MAFS.3.NF.1.2).		
Calculator		No		
Acceptable		Equation Response		
Response		Graphic Response – Drag and Drop, Drawing/Graphing, Hot Spot		
Mechanisms		Multiple Choice Response		
		Multi-Select Response		
		Table Response		
Context	Allowable			
		Example		
Context Equally p		artitioned whole objects with any orientation:		
		Unit fractions or non-unit fractions less than one with denominators 2, 3, 4, 6, and 8		
	Non-unit fractions greater than one limited to halves and fourths			
Context	Identify unit fractions using:			
easier	• Easy to distinguish models such as $\frac{1}{2}$, $\frac{1}{3}$, and $\frac{1}{4}$			
Context	Identify f	ractions using a variety of complex models that may include:		
more		Any fraction (not necessarily unit) less than 1 or other fractions greater than 1 with		
difficult	, , , ,			
		Within a context		
		Repeated unit fractions		
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Sample Item Stem	Response Mechanism	Notes, Comments
Each model shown has been shaded to	Multiple Choice	,
represent a fraction. Which model shows	Response	
$\frac{1}{4}$ shaded?		
Each model shown has been shaded to	Multiple Choice	
represent a fraction. Which model shows	Response	
$\frac{3}{4}$ shaded?		

	T T
The model shown represents one whole.	Graphic Response –
	Drag and Drop
Use the triangles to see how many equal	
parts the model can be divided into. Place	
numbers in the boxes to show the	
fraction of the whole each triangle	
represents.	
0 1	
Each is one whole.	
4 5	
Each is one whole.	
8 9	
Each is of the whole.	
Food charachaus vanacants 1 of c	Graphic Response –
Each shape shown represents $\frac{1}{2}$ of a	Drag and Drop
whole. Drag the shapes into the box to	Stag and Stop
show $\frac{5}{2}$.	
Each [2] 2 is one whole.	
is $\frac{5}{2}$.	
Each chang chown represents ¹ of a	Equation Response
Each shape shown represents $\frac{1}{2}$ of a	
whole.	
$\left \begin{array}{c c} \frac{1}{2} & \frac{1}{2} \end{array}\right $	
How many shapes should be put together	
to make $\frac{5}{2}$?	
2	

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Jan and Laura have a total of 3 same-	Equation Response	
sized cookies they want to divide equally		
between the two of them. They divide		
each cookie in half as shown.		
Jan Jan Laura Laura Jan Laura		
What fraction of the cookies should each		
girl receive?		