Content Standard		MAFS.4.NF Number and Operations - Fractions				
		MAFS.4.NF.3 Under fractions.	stand decimal notation for fr	ractions, and compare decimal		
		<b>MAFS.4.NF.3.5</b> Express a fraction with denominator 10 as an equivalent fraction with denominator 100, and use this technique to add two fractions with respective denominators 10 and 100. For example, express $\frac{3}{10} as \frac{30}{100}$ , and add $\frac{3}{10} + \frac{4}{100} = \frac{34}{100}$ .				
Assessment Limits		Denominators must be either 10 or 100.				
		Decimal notation is not assessed in this standard.				
Calculator		No				
Acceptable		Equation Response				
Response		Multiple Choice Response				
Mechanisms		Multi-Select Response				
		Matching Item Response				
Context	Allow	owable				
Example						
Context	Gener and The fi	erally, moderately sized numbers in the numerators (between 3 and 7, between 30 nd 70). final sum may be an improper fraction – use this criterion sparingly for a medium				
Context	Gene	evally smaller numbers in the numerators ( $<= 3 <= 30$ )				
easier	The n	e numerator of the fraction with 100 in the denominator is a multiple of 10.				
Context	Gene	enerally, larger numbers in the numerators (>= 7, >= 70).				
more	One c	e of the addends may be an improper fraction – use this criterion sparingly for hard				
difficult	ite	ems.				
Sample Item Stem		Response Mechanism	Notes, Comments			
Create a fraction with a denominator of			Equation Response			
100 that is equivalent to $\frac{2}{10}$ .						
Which fraction is equivalent to $\frac{3}{10}$ ?			Multiple Choice Response			

## Grade 4 Mathematics Item Specifications Florida Standards Assessments

A fraction model is shown.	Equation Response	
The fraction represented by this model can be written in the form of $\frac{?}{}$		
What is the missing number?		
An equation is shown.	Equation Response	
$\frac{8}{10} + \Box = \frac{97}{100}$		
What is the missing number?		