Content Standard		MAFS.5.0A Operations and Algebraic Thinking				
		MAFS.5.OA.1 Write and interpret numerical expressions.				
		MAFS.5.OA.1.1 Use parentheses, brackets, or braces in numerical expressions, and				
		evaluate expressions with these symbols.				
Assessment Limits		Whole numbers and simple fraction expressions (single digit denominators, fraction				
		multiplied by a whole number).				
		Expressions should not be more complex than those used in associative or distributive				
		property situations.				
Calculator No		No				
Acceptable Eq.		Equation Response				
Response Multipl		Aultiple Choice Response				
Mechanis	sms	Multi-Select Response				
		Graphic Response – Dr	rag and Drop, Hot Spot			
Context	No c	ontext				
			Example			
Context	Use two o	Use two operations inside the grouping symbols. Use more than one set of grouping symbols				
	with one	operation inside the gro	ouping symbols. Use only w	hole numbers.		
	• E'	valuate the expression 6	5 x (4 + 3 x 2) + 100.			
	• E	valuate the expression (6 + 3) x (4 + 2).			
Context Use one operation inside the grouping symbols. Use only whole numbers.						
easier	• E'	valuate the expression 6 x (4 + 2) + 100.				
Context	Use fracti	ions. Use more than one set of grouping symbols with two operations inside the				
more	grouping	symbols.				
difficult	• E	valuate the expression $\frac{1}{7}$ x (4 + 8 x 2) – 9.				
	• Evaluate the expression $(6 + 3 \times 3) - (4 \times 2 + 2)$					
Sample Item Stem			Response Mechanism	Notes. Comments		
An expression is shown		Equation Response				
6 x (4 + 2) + 100						
What is the value of the expression?						
An expression is shown.			Equation Response			
3 + 8 - 4 x 2 - 12						
Create an equivalent expression that						
includes a set of parentheses so that the						
value of the expression is 2.						
An expression is shown.			Equation Response			
6 x (4 + 2	2 x 4) + 10					

What is the value of the expression?		
An expression is shown.	Equation Response	
$\frac{1}{2} \times [4 + 6 \times 3] - 9$		
What is the value of the expression?		
A numerical expression is evaluated as	Multiple Choice	
shown.	Response	
$\frac{1}{2}$ x {6 x 1 + 7} + 11		
Line 1: $\frac{1}{2}$ x {6 x 8} + 11		
Line 2: $\frac{1}{2}$ x 48 + 11		
Line 3: 24 + 11		
Line 4: 35		
In which line does a mistake first appear?		
A. Line 1		
B. Line 2		
C. Line 3		
D. Line 4		