	Content Standard MAFS.3.OA Operations and a		
MAFS.3.OA.2 Understand primultiplication and division.		roperties of multiplication and the relationship between	
Assessment Limits	<b>MAFS.3.OA.2.5</b> Apply properties of operations as strategies to multiply and divide. Examples: If $6 \times 4 = 24$ is known, then $4 \times 6 = 24$ is also known. (Commutative property of multiplication.) $3 \times 5 \times 2$ can be found by $3 \times 5 = 15$ , then $15 \times 2 = 30$ , or by $5 \times 2 = 10$ , then $3 \times 10 = 30$ . (Associative property of multiplication.) Knowing that $8 \times 5 = 40$ and $8 \times 2 = 16$ , one can find $8 \times 7$ as $8 \times (5 + 2) = (8 \times 5) + (8 \times 2) = 40 + 16 = 56$ . (Distributive property.)		
Product or dividend must be 100 or less.			
Calculator No  Acceptable Equation Response Response Graphic Response – Hot Spot Mechanisms Matching Item Response Multiple Choice Response Multi-Select Response		t	
Context No contex	text		
		Example	
Context No context			
Context Use of the Commutative Property with easier		two factors.	
Context Use of multiple properties to determine more difficult		e an equivalent expressi	on.
Sample Item Stem		Response	Notes, Comments
An equation is shown. $4 + 9 = 9 + \square$		Mechanism  Multiple Choice  Response	
What is the missing value?			
A. 4 B. 5 C. 9 D. 13			
Drag numbers to the boxes to create a <b>different</b> expression that is equal to $(3 + 4) + 5$ .		Graphic Response – Hot Spot	

## Grade 3 Mathematics Item Specifications Florida Standards Assessments

Which expression is equal to 7 x (2 x 3)?  A. (7 x 2) + (7 x 3)  B. (7 + 2) x (7 + 3)  C. (7 + 2) x 3  D. (7 x 2) x (7 x 3)	Multiple Choice Response
Select all the expressions that could be used to find 6 x 10.  o 6 x (2 x 5) o 6 + (2 x 5)	Multi-Select Response
<ul> <li>(6 x 2) x 5</li> <li>10 x 6</li> <li>(6 x 8) x (6 x 2)</li> </ul>	