

Content Standard	<p><b>MAFS.6.NS</b> <i>The Number System</i></p> <p><b>MAFS.6.NS.2</b> <i>Compute fluently with multi-digit numbers and find common factors and multiples.</i></p> <p><b>MAFS.6.NS.2.4</b> Find the greatest common factor of two whole numbers less than or equal to 100 and the least common multiple of two whole numbers less than or equal to 12. Use the distributive property to express a sum of two whole numbers 1–100 with a common factor as a multiple of a sum of two whole numbers with no common factor. <i>For example, express <math>36 + 8</math> as <math>4(9 + 2)</math>.</i></p>		
Assessment Limits	<p>Whole numbers less than or equal to 100.</p> <p>Least common multiple of two whole numbers less than or equal to 12.</p>		
Calculator	No		
Acceptable Response Mechanisms	<p>Equation Response</p> <p>Multiple Choice Response</p> <p>Matching Item Response</p>		
Context	No context		
Example			
Context	<p>What is an equivalent expression to <math>81 + 27</math>?</p> <p>Expressions using the factors 3, 4, 6, and 9.</p>		
Context easier	<p>Expressions using the factors 2, 5, 10, and 11 only.</p>		
Context more difficult	<p>Expressions using the factors 7, 8, and 12.</p>		
Sample Item Stem	Response Mechanism	Notes, Comments	

Grade 6 Mathematics Item Specifications  
 Florida Standards Assessments

What is the greatest common factor of 15 and 20?	Equation Response	
What is the least common multiple of 7 and 12?	Equation Response	
Which expression is equivalent to $8 + 20$ ? A. $4(4 + 20)$ B. $4(2 + 5)$ C. $2(2 + 10)$ D. $2(6 + 18)$	Multiple Choice Response	

An equation is shown. $30 + 12 = \square(5 + 2)$ What factor is missing from the equation?	Equation Response																	
Match the equivalent expression in the table. <table border="1" data-bbox="94 1373 435 1635"> <tr> <td></td> <td><math>4(10+9)</math></td> <td><math>9(5+2)</math></td> <td><math>3(12+7)</math></td> </tr> <tr> <td><math>36+21</math></td> <td></td> <td></td> <td></td> </tr> <tr> <td><math>45+18</math></td> <td></td> <td></td> <td></td> </tr> <tr> <td><math>40+36</math></td> <td></td> <td></td> <td></td> </tr> </table>		$4(10+9)$	$9(5+2)$	$3(12+7)$	$36+21$				$45+18$				$40+36$				Matching Item Response	
	$4(10+9)$	$9(5+2)$	$3(12+7)$															
$36+21$																		
$45+18$																		
$40+36$																		